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FUME HOODS

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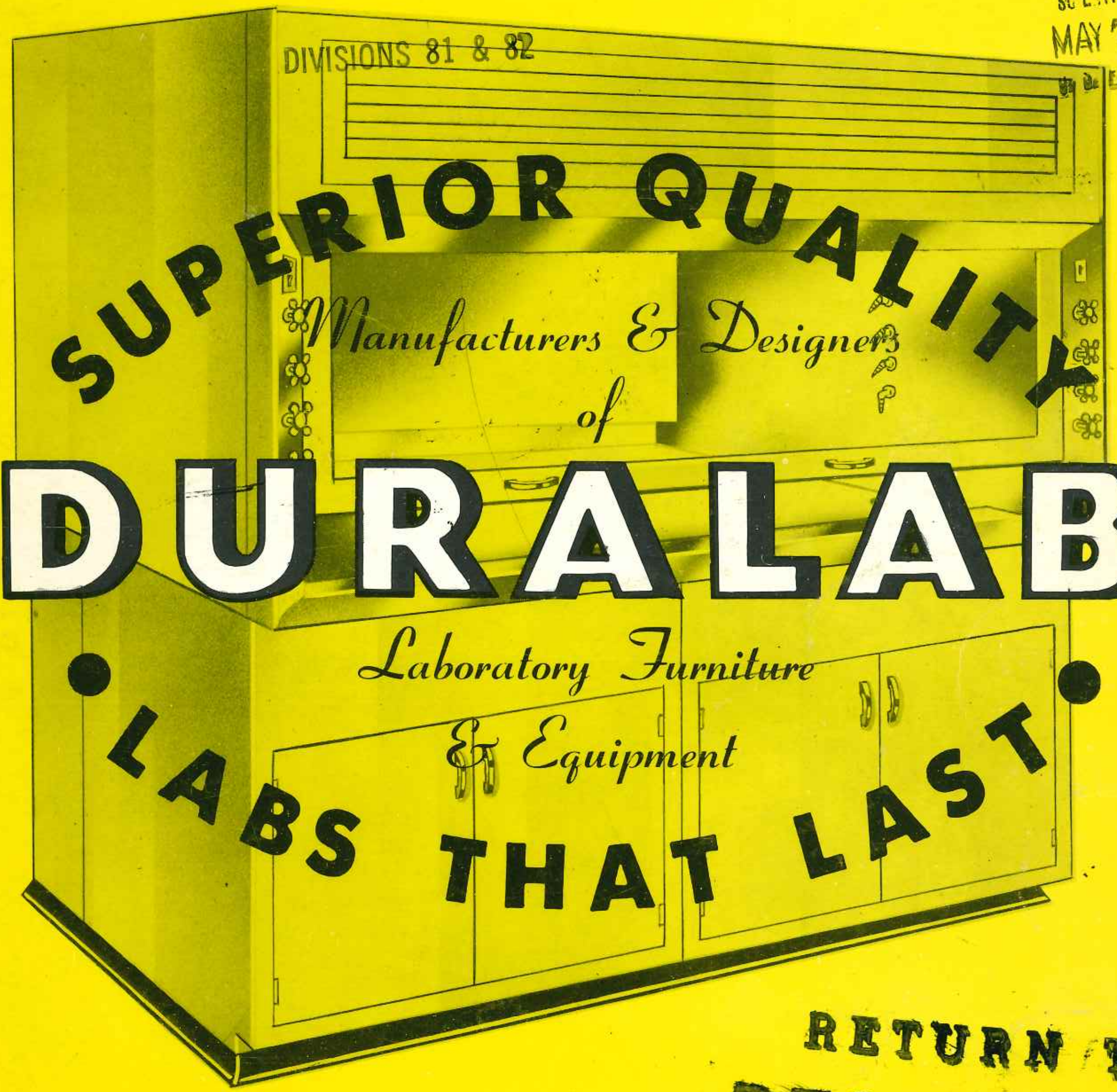

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Div. 81

DURALAB EQUIPMENT CORP.

Dedicated to serve you from the idea . . .
to the completely equipped superior Modern laboratory.

With the coming of age of Research and Development the Research Laboratory has come to the forefront in the race for new and better products.

Although the Research Laboratory is considered by many to be an inanimate project, within these very walls the creative minds of thousands of research people are constantly trying to consummate ideas into practical usage.

Until a very few years ago the Laboratory was nothing more than an after-thought. Today buildings are designed around the Laboratory.

At the present time one of the most important pieces of equipment in the Laboratory is the Fume Hood. Inasmuch as there are innumerable types of Fume Hoods on the market today, most of them are for a particular application.

Fume Hoods until recently were nothing more than a square mass of materials. When put into operation they were very inefficient. At present fume hoods are designed not only with an eye towards beauty but as functional as possible.

The old type fume hood had massive posts at the front enclosing the weights which counterbalanced the sash. The posts would protrude past the sides of the hood, thus creating a violent turbulence of air within the hood chamber and possibly upsetting experiments within the hood chamber. This hood would have to run on upwards of 100CFM. If the laboratory were air-conditioned a supplemental air supply would be needed, which of course is very costly.

From the front post-type fume hood there evolved a type of fume hood which was counterbalanced at the rear. This eliminated some of the evils of the previous type but was still not efficient enough for todays products.

At present the most advanced designs and engineering concepts have gone into the manufacture of the Constant Air-Flow Fume Hood with Air Entrainment and Air-By-Pass features. This unique Air Entrainment design affords a smooth even flow of air into the hood chamber. This is due to the curved panels at the sides, bottom and top. The curved panels create a smooth flow of air entering into the fume hood chamber with very little air turbulence. This hood can be run at approximately 60CFM. Even though the initial cost of this type of fume hood is more expensive, due to the low CFM the operating costs make it a less expensive fume hood. The constant air-flow with automatic air-by-pass is an important feature in that there is always a constant flow of air into the fume hood chamber. Taking this feature into consideration this type of fume hood is recommended for air-conditioned laboratories. Even though the sash is closed the constant flow of air makes the engineering of the heating and ventilating problem a relatively simple task.

Today the zenith in fume hood design, engineering and construction is the constant Air Flow with Air-Entrainment and Air-By-Pass features. This is climaxed only with the addition of the "Slimline" feature, which is fully described in this catalog.

This Catalog will illustrate basic Fume Hood designs and some concepts into the future already engineered and designed by our skilled staff.

Even though your Laboratory may need a particular type of Fume Hood not shown in this Catalog, allow our skilled engineering staff to discuss your particular problem with you.

President
DURALAB EQUIPMENT CORPORATION

For complete catalog illustrating Wall Tables, Center Tables, Sectional Units, Wall and Floor Storage Cases and Specialized Equipment write for Catalog D2.

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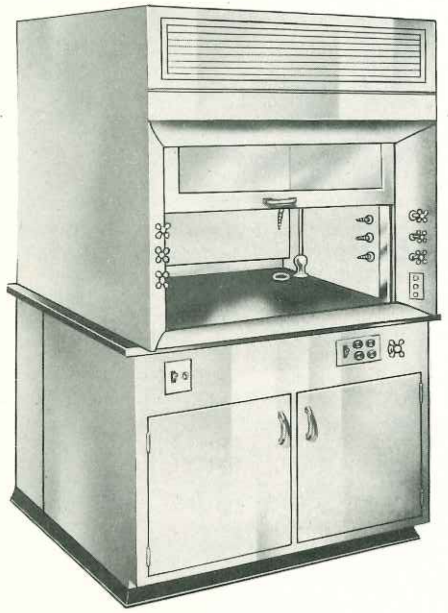
"ELECTRICITY — *greatest servant of man, itself unknown.*" C. W. Eliot

AVOID ANNOYANCE, AWKWARDNESS,
IRRITATION and DISCOMFORT,
WORK WITH FACILITY and EASE!

The Electronic Age has given impetus to electronically operate as many devices as possible and to greatly reduce the chores of the average individual.

Today the Electronic Age has not only moved into the Laboratory but into the Fume Hood itself. The Fume Hood, as we know it today, is the focal point of the Research and Development Laboratory. Anything that can be done to help our Scientists and Chemists to work safer, quicker and more efficiently will be a sizeable contribution to their singular and combined efforts.

The hoods illustrated show the baffle working in conjunction with the sash. As the sash moves up the baffle also moves upward. Thus, as the illustration shows the fumes are pulled along the counter to the rear of the baffle and exhausted upwards and out. This prevents any fumes from entering the Laboratory. The sash in conjunction with the baffle can be stopped in any desired position. If desired, the sash and the baffle can be operated independently of each other if specified.



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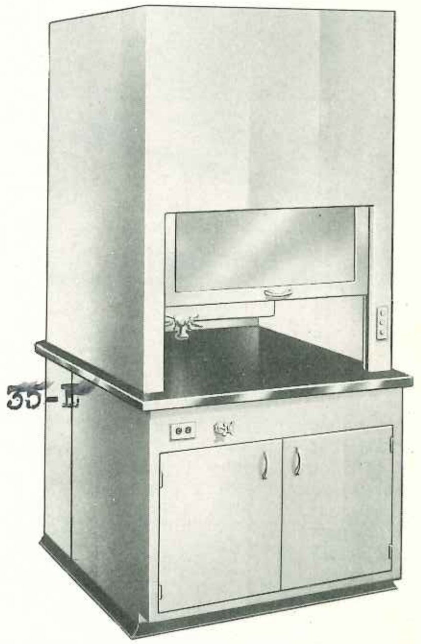
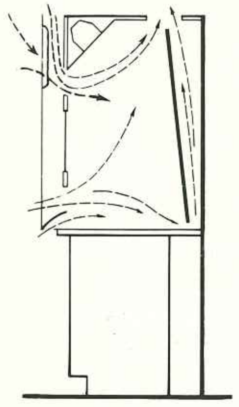


Cat. No.	Length	Width	Height
ELSDB104	4'1"	2'9½"	7'2½"
ELSDB105	5'1"	2'9½"	7'2½"
***ELSDB106**	6'0"	2'9½"	7'2½"

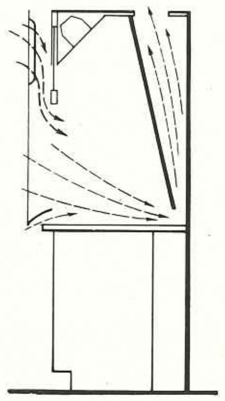
*Support consists of 2- cabinets
Services to be provided same as described on Page 6.

Cat. No.	Length	Width	Height
ELSCH37	3'1"	2'6"	8'0"
ELSCH49	4'1"	2'6"	8'0"
ELSCH61	5'1"	2'6"	8'0"
***ELSCH72**	6'0"	2'6"	8'0"

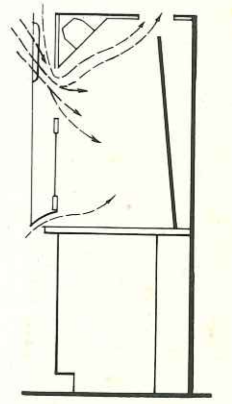
*Support consists of 2- cabinets
Services to be provided same as described on Page 18.



Bottom and top of baffle opened to any desired position.



Top of baffle closed. Bottom completely opened.



Bottom of baffle closed. Top completely opened.

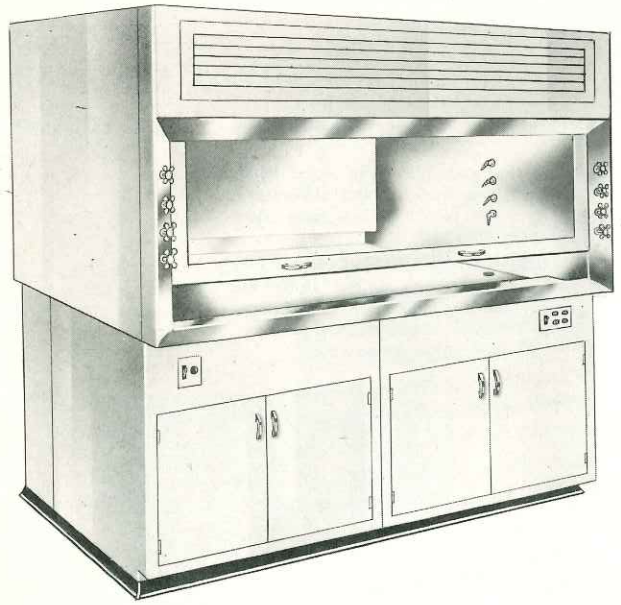
Above illustrated Fume Hoods are also provided with automatic air-by-pass feature.

Fume Hoods illustrated are the ELSDB type.

Air Entrainment

SLIMLINE

Air By-Pass



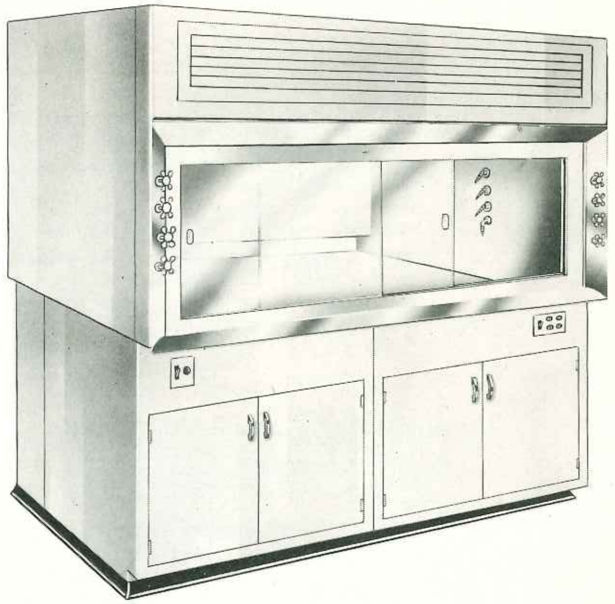
RADIO-CHEMICAL HOODS TYPES — HSVAEH104C to HSVAEH108S
RADIO-CHEMICAL HOOD with fixed glass panel in the vertically sliding sash.

Cat. No.	Length	Width	Height	Lining
***HSVAEH104C**	4′1″	2′9½″	7′2½″	Colorlith
***HSVAEH105C**	5′1″	2′9½″	7′2½″	Colorlith
HSVAEH106C	6′0″	2′9½″	7′2½″	Colorlith
HSVAEH108C	8′0″	2′9½″	7′2½″	Colorlith
***HSVAEH104T**	4′1″	2′9½″	7′2½″	Transite
***HSVAEH105T**	5′1″	2′9½″	7′2½″	Transite
HSVAEH106T	6′0″	2′9½″	7′2½″	Transite
HSVAEH108T	8′0″	2′9½″	7′2½″	Transite
***HSVAEH104S**	4′1″	2′9½″	7′2½″	Stainless
***HSVAEH105S**	5′1″	2′9½″	7′2½″	Stainless
HSVAEH106S	6′0″	2′9½″	7′2½″	Stainless
HSVAEH108S	8′0″	2′9½″	7′2½″	Stainless

T — ¼″ Chemically treated Transite
S — Stainless Steel, specify type 302 or 316

The above hoods have been developed for the Radio Chemical Laboratory and are available having the interior lined with Stainless Steel, Transite or Colorlith. The exteriors are lead coated sheet steel with a baked-on acid resistant Epon finish. The stainless steel linings are available in Types 302 or 316 with a 2B or #4 finish. Please specify type and finish. The working counters for the Stainless Steel, Transite and Colorlith lined hoods are constructed of stainless steel having extra heavy reinforcing to support lead barriers. Stainless Steel counters are formed into a ⅜″ deep watertight pan and has a 3″ diameter stainless steel drain bowl. If a stainless steel interior is required please specify the type of construction; e.g., overlap spot welded, seamless welded, seamless with coved interiors. A stainless steel wash down spray can also be provided if specified. Hoods are provided with a type B2 baffle constructed of the same material as the lining. The stainless steel hood has a removable baffle. The counter air foils and sash frames containing laminated safety glass for all hoods are constructed of stainless steel.

These hoods have unique air entrainment and air by-pass features.



RADIO-CHEMICAL HOODS — HSHAEH104C to HSHAEH108S
RADIO-CHEMICAL HOOD with horizontally sliding glass panels in vertically sliding sash.

Cat. No.	Length	Width	Height	Lining
***HSHAEH104C**	4′1″	2′9½″	7′2½″	Colorlith
***HSHAEH105C**	5′1″	2′9½″	7′2½″	Colorlith
HSHAEH106C	6′0″	2′9½″	7′2½″	Colorlith
HSHAEH108C	8′0″	2′9½″	7′2½″	Colorlith
***HSHAEH104T**	4′1″	2′9½″	7′2½″	Transite
***HSHAEH105T**	5′1″	2′9½″	7′2½″	Transite
HSHAEH106T	6′0″	2′9½″	7′2½″	Transite
HSHAEH108T	8′0″	2′9½″	7′2½″	Transite
***HSHAEH104S**	4′1″	2′9½″	7′2½″	Stainless
***HSHAEH105S**	5′1″	2′9½″	7′2½″	Stainless
HSHAEH106S	6′0″	2′9½″	7′2½″	Stainless
HSHAEH108S	8′0″	2′9½″	7′2½″	Stainless

* Single supporting cabinet
C — ¼″ Charcoal Gray Colorlith

The air entrainment vanes at the front openings create a smooth air flow into the chambers reducing adverse air currents and eddies. The concealed air by-pass permits constant air flow into the chambers when the sashes are in the fully closed positions. These features result in a smaller volume of air exhausted and a constant removal of air from the laboratories, making it possible for the hoods to be a part of the exhaust system in the air-conditioned laboratories.

The newest engineering concept in Fume Hoods is the "Slimline" with air entrainment and air by-pass features all combined into one. This "Slimline" concept provides up to five additional inches of working space while keeping the same overall length. Piping and conduit are easily concealed between the double wall sides.

Services to be provided: 4- electric, 2- hose ends for gas, 2- hose ends for vacuum, 2- hose ends for air, 2- hose ends for water, 8- remote controls, 1- flourescent lighting fixture with switch and 1- motor starting switch with pilot light. No piping, conduit, or wiring from service fixtures are included.

Typical duct locations and roughing in details for **HSVAEH** and **HSHAEH "SLIMLINE" Fume Hoods.**
All piping, conduit and wiring from valves by others.

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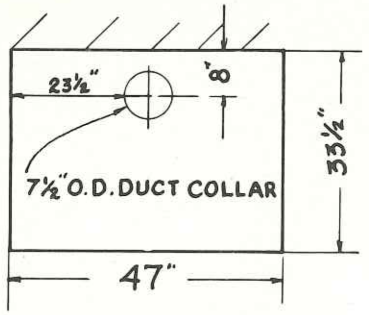
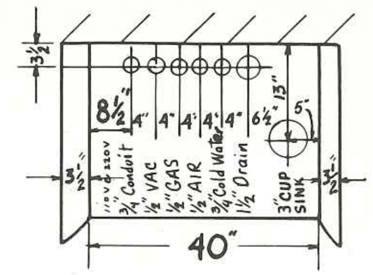
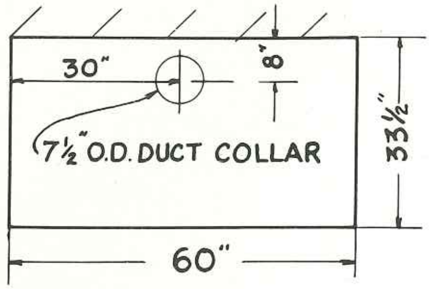
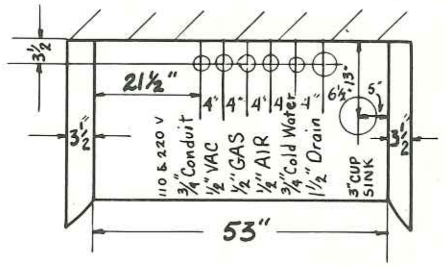
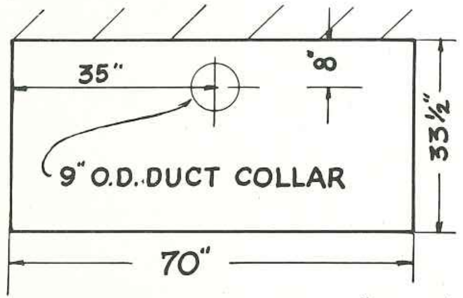
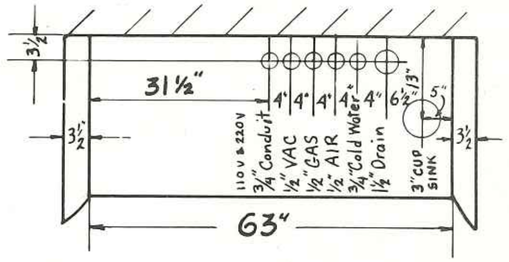


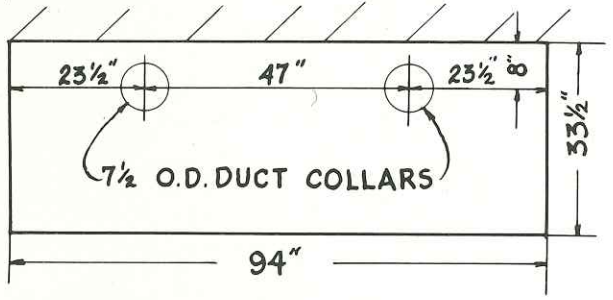


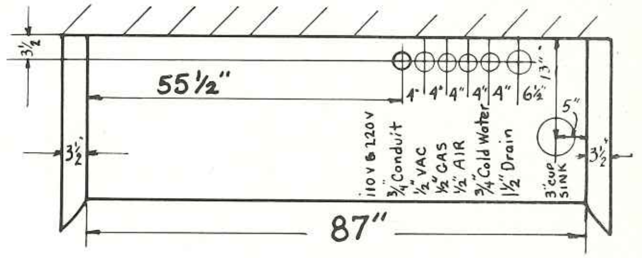


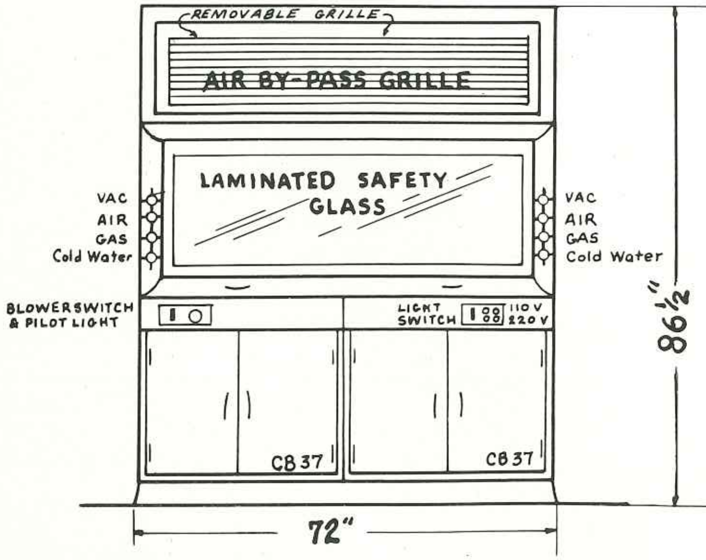




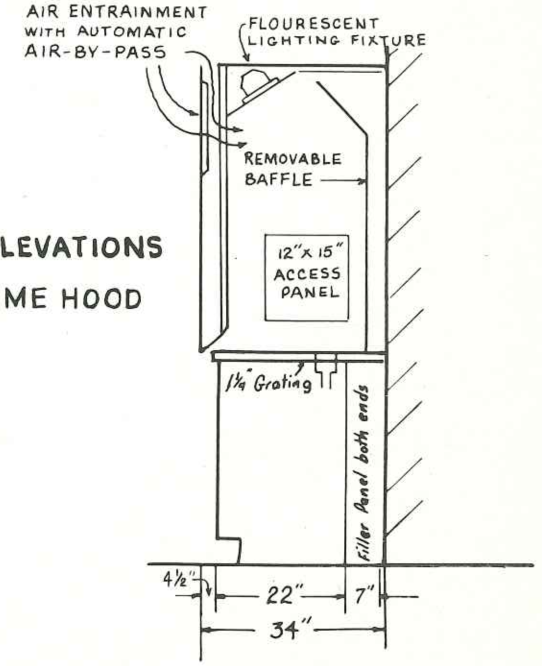








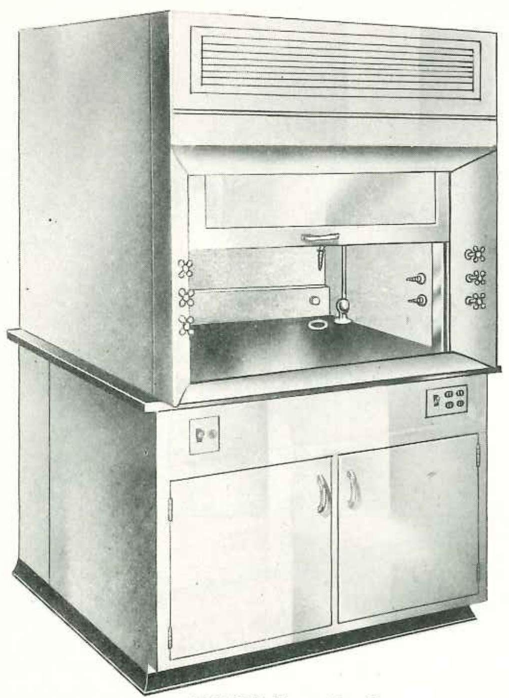
TYPICAL ELEVATIONS
6 FOOT FUME HOOD



Air Entrainment

SLIMLINE

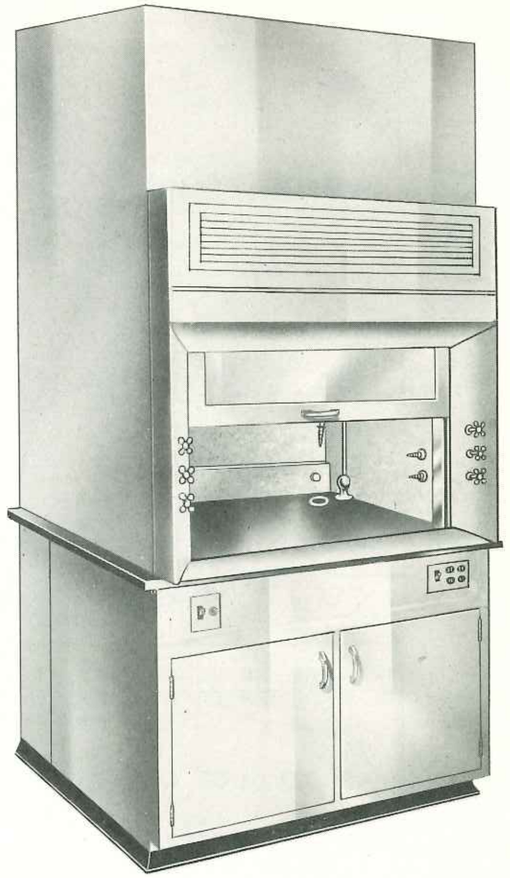
Air By-Pass



HSHDBH Type Hoods

Cat. No.	Length	Width	Height	Lining
***HSHDBH 104C**	4'1"	2'9½"	7'2½"	Colorlith
***HSHDBH 105C**	5'1"	2'9½"	7'2½"	Colorlith
HSHDBH 106C	6'0"	2'9½"	7'2½"	Colorlith
HSHDBH 108C	8'0"	2'9½"	7'2½"	Colorlith
***HSHDBH 104T**	4'1"	2'9½"	7'2½"	Transite
***HSHDBH 105T**	5'1"	2'9½"	7'2½"	Transite
HSHDBH 106T	6'0"	2'9½"	7'2½"	Transite
HSHDBH 108T	8'0"	2'9½"	7'2½"	Transite

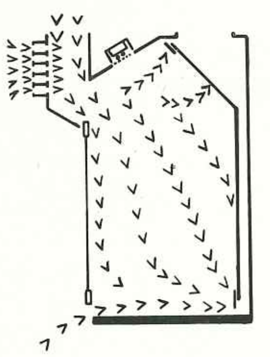
* Single supporting cabinet
C — ¼" Charcoal gray Colorlith
T — ¼" Chemically treated Transite



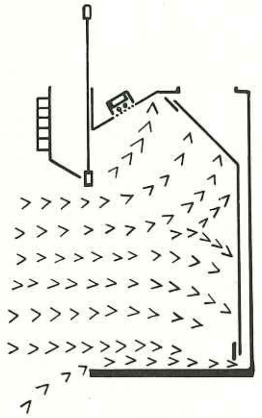
HSHDBHE Type Hoods with Ceiling Enclosure

Cat. No.	Length	Width	Height	Lining
***HSHDBHE104C**	4'1"	2'9½"	10'0"	Colorlith
***HSHDBHE105C**	5'1"	2'9½"	10'0"	Colorlith
HSHDBHE106C	6'0"	2'9½"	10'0"	Colorlith
HSHDBHE108C	8'0"	2'9½"	10'0"	Colorlith
***HSHDBHE104T**	4'1"	2'9½"	10'0"	Transite
***HSHDBHE105T**	5'1"	2'9½"	10'0"	Transite
HSHDBHE106T	6'0"	2'9½"	10'0"	Transite
HSHDBHE108T	8'0"	2'9½"	10'0"	Transite

If shorter or longer enclosure panels are required, please give ceiling height. All working counters are 37" high.



This illustration shows the sash in the closed position. The flow of air into the chamber is constantly maintained with the air entering below the stainless working counter air-foil vane and through the air by-pass above the sash. The air by-pass opens and closes automatically with the operation of the sliding sash.



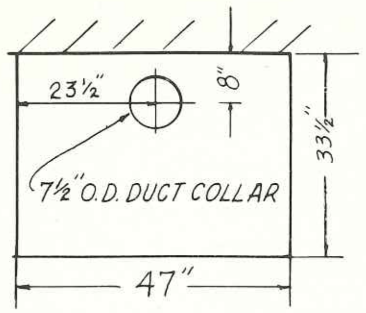
The sash in the open position, illustrated above, closes the air by-pass whereby the air being exhausted enters the chamber through the front sash opening. The working counter air-foil vane creates a desirable current at the counter level for evacuating heavier-than-air fumes. The flow of air can additionally be controlled by the adjustable baffle plates.

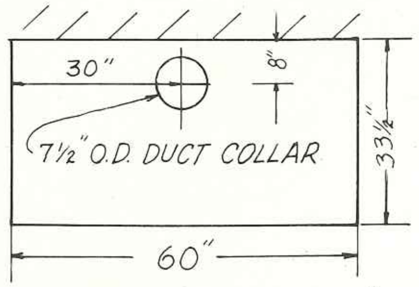
These hoods have the same unique air entrainment, air by-pass and "Slimline" features described on Page 4. The exteriors are lead coated sheet steel with a baked-on acid resistant Epon finish. Interiors can be provided with Colorlith or Transite. All working counters are constructed of 1¼" thick charcoal gray Colorlith. Hoods are provided with a type B2 baffle constructed of the same material as the lining.

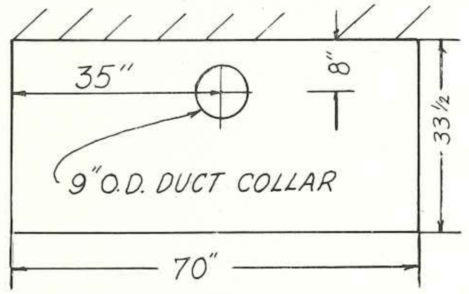
Services to be provided: 1- 3" diameter lead bowl, 1- cold water gooseneck, 2- hose ends for gas, 2- hose ends for air, 2- hose ends for vacuum, 7- remote controls, 1- flourescent lighting fixture with switch, 1- motor starting switch with pilot light, and 4- electric. No piping, conduit, or wiring from service fixtures are included.

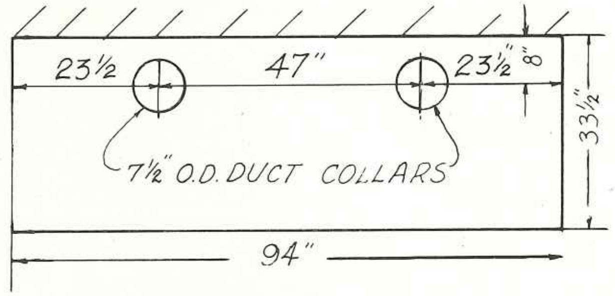
If requested any of the other baffle arrangements shown on page **20** can be provided.

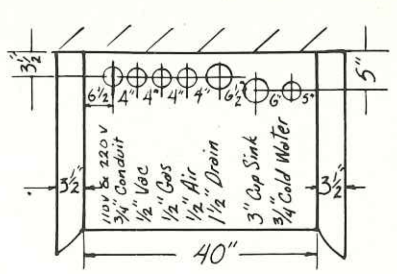
Typical duct locations and roughing in details for **HSHDBH** and **HSHDBHE "SLIMLINE" Fume Hoods.**
All piping, conduit and wiring from valves by others.

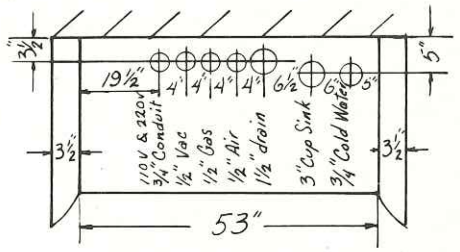


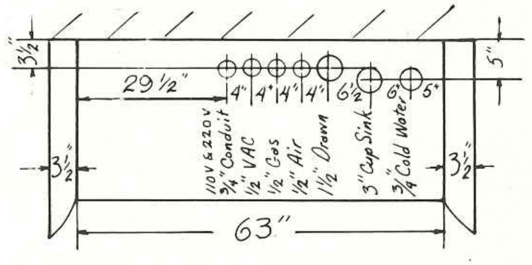


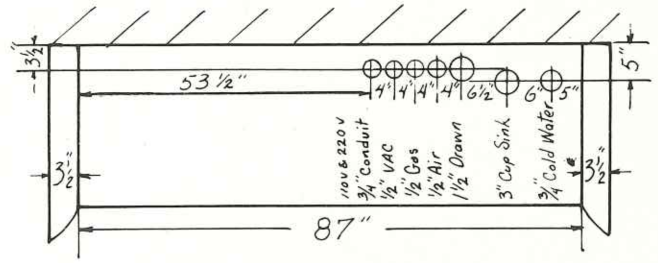


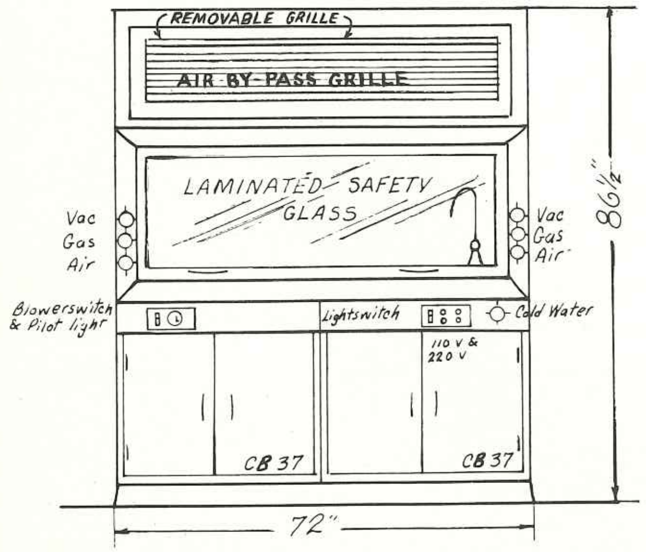




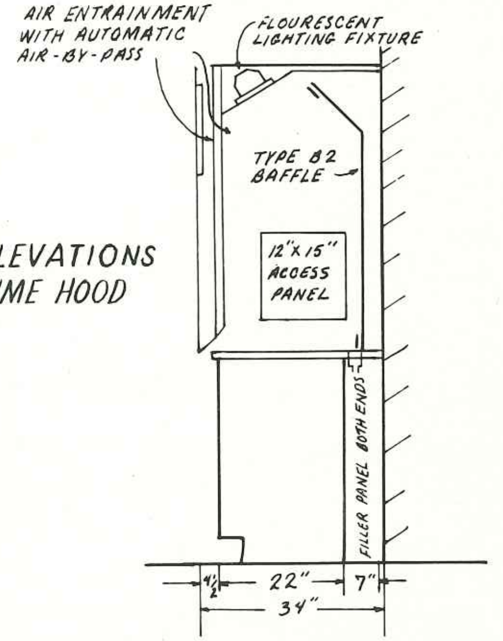




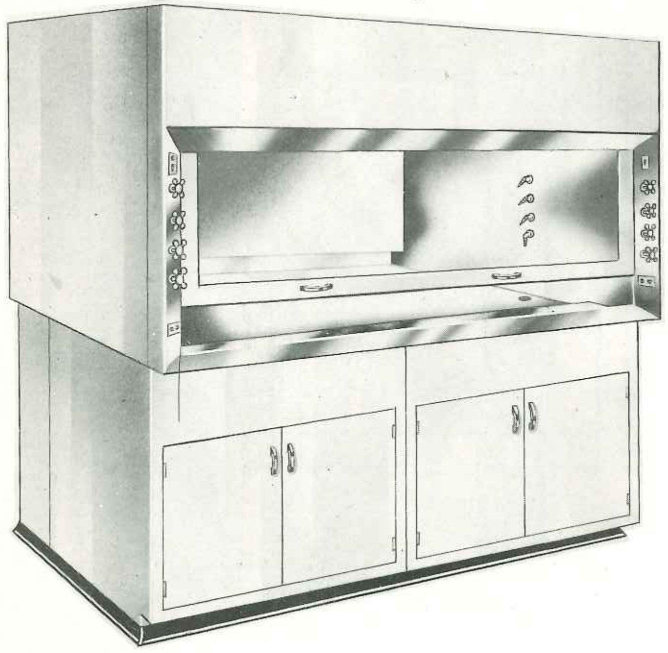


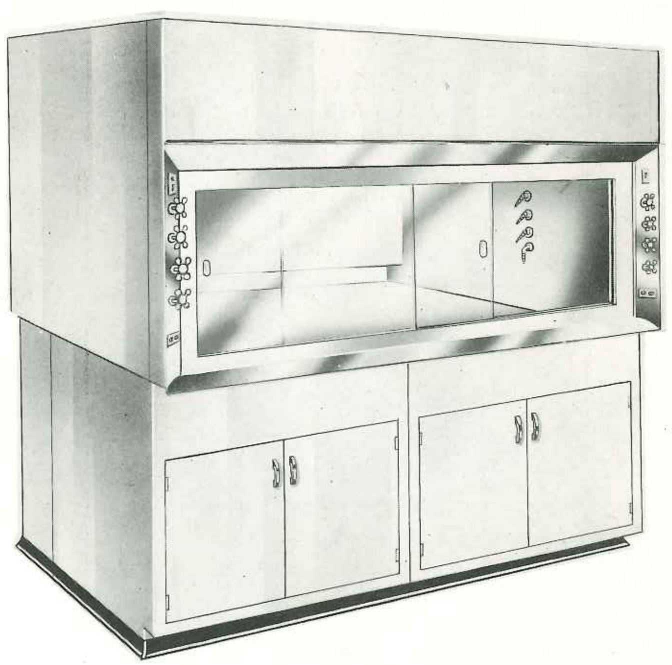


TYPICAL ELEVATIONS
6 FOOT FUME HOOD


AIR ENTRAINMENT WITH AUTOMATIC AIR-BY-PASS
FLOURESCENT LIGHTING FIXTURE
TYPE B2 BAFFLE
12"x15" ACCESS PANEL
FILLER PANEL BOTH ENDS
4½
22"
7"
34"

Air Entrainment FUME HOODS *Air By-Pass*





RADIO-CHEMICAL HOODS HVAEH104C to HVAEH108S
RADIO-CHEMICAL HOOD with fixed glass panel in the vertically sliding sash.

Cat. No.	Length	Width	Height	Lining
***HVAEH104C**	4'1"	3'0"	7'2½"	Colorlith
***HVAEH105C**	5'1"	3'0"	7'2½"	Colorlith
HVAEH106C	6'0"	3'0"	7'2½"	Colorlith
HVAEH108C	8'0"	3'0"	7'2½"	Colorlith
***HVAEH104T**	4'1"	3'0"	7'2½"	Transite
***HVAEH105T**	5'1"	3'0"	7'2½"	Transite
HVAEH106T	6'0"	3'0"	7'2½"	Transite
HVAEH108T	8'0"	3'0"	7'2½"	Transite
***HVAEH104S**	4'1"	3'0"	7'2½"	Stainless
***HVAEH105S**	5'1"	3'0"	7'2½"	Stainless
HVAEH106S	6'0"	3'0"	7'2½"	Stainless
HVAEH108S	8'0"	3'0"	7'2½"	Stainless

T — ¼" Chemically treated Transite
S — Stainless Steel, specify type 302 or 316

RADIO-CHEMICAL HOODS HHAEH104C to HHAEH108S
RADIO-CHEMICAL HOOD with horizontally sliding glass panels in vertically sliding sash.

Cat. No.	Length	Width	Height	Lining
***HHAEH104C**	4'1"	3'0"	7'2½"	Colorlith
***HHAEH105C**	5'1"	3'0"	7'2½"	Colorlith
HHAEH106C	6'0"	3'0"	7'2½"	Colorlith
HHAEH108C	8'0"	3'0"	7'2½"	Colorlith
***HHAEH104T**	4'1"	3'0"	7'2½"	Transite
***HHAEH105T**	5'1"	3'0"	7'2½"	Transite
HHAEH106T	6'0"	3'0"	7'2½"	Transite
HHAEH108T	8'0"	3'0"	7'2½"	Transite
***HHAEH104S**	4'1"	3'0"	7'2½"	Stainless
***HHAEH105S**	5'1"	3'0"	7'2½"	Stainless
HHAEH106S	6'0"	3'0"	7'2½"	Stainless
HHAEH108S	8'0"	3'0"	7'2½"	Stainless

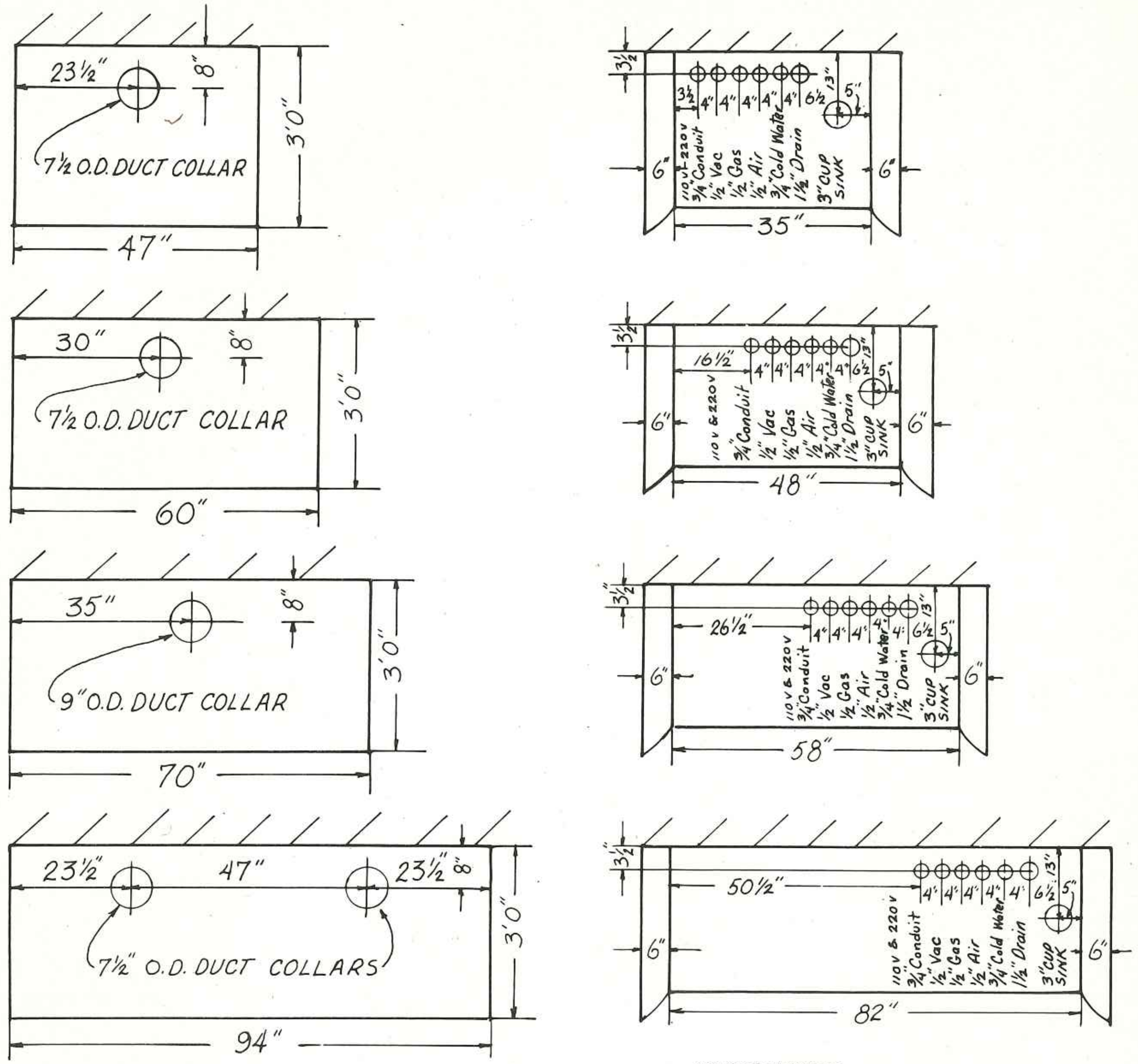
* Single supporting cabinet
C — ¼" Charcoal gray Colorlith

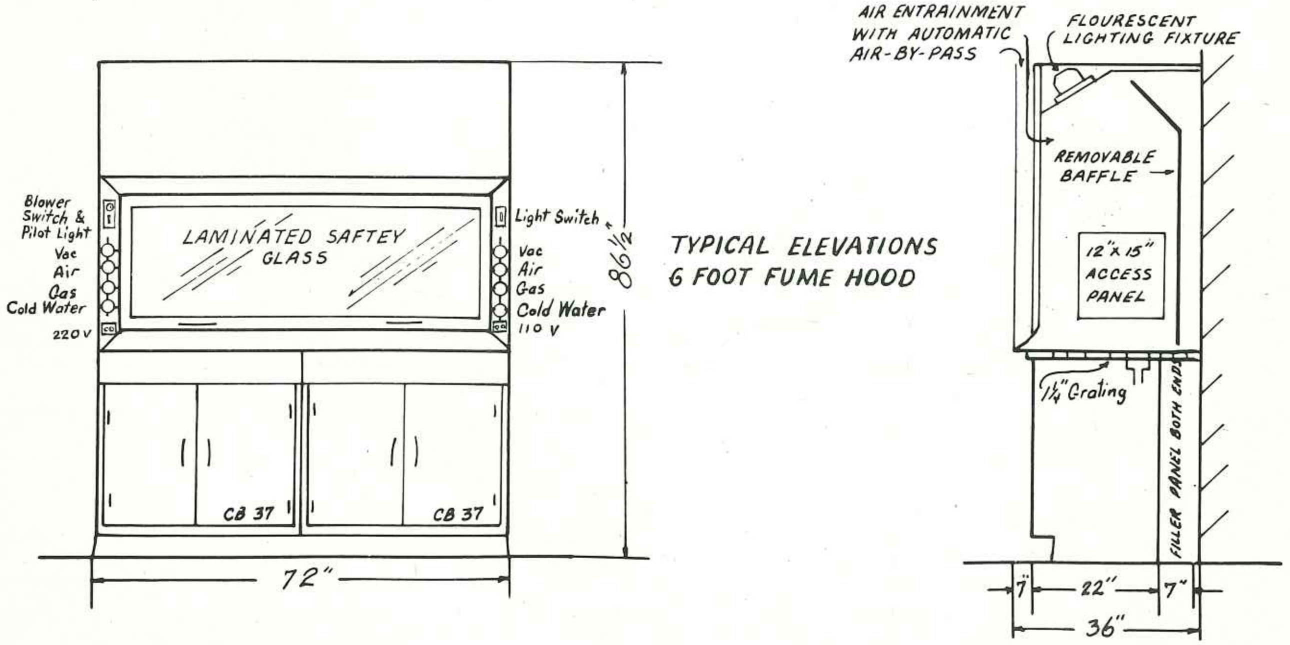
The above hoods have been developed for the Radio Chemical Laboratory and are available having the interior lined with Stainless Steel, Transite or Colorlith. The exteriors are lead coated sheet steel with a baked-on acid resistant Epon finish. The stainless steel linings are available in Types 302 or 316 with a 2B or #4 finish. Please specify type and finish. The working counters for the Stainless Steel, Transite and Colorlith- lined hoods are constructed of stainless steel having extra heavy reinforcing to support lead barriers. Stainless Steel counters are formed into a ⅜" deep watertight pan and has a 3" diameter stainless steel drain bowl. If a stainless steel interior is required please specify the type of construction; e.g., overlap spot welded, seamless welded, seamless with coved interiors. A stainless steel wash down spray can also be provided if specified. Hoods are provided with a type B2 baffle constructed of the same material as the lining. The stainless steel hood has a removable baffle. The counter air foils and sash frames containing laminated safety glass for all hoods are constructed of stainless steel.

These hoods have unique air entrainment and air by-pass features. The air entrainment vanes at the front openings create a smooth air flow into the chambers reducing adverse air currents and eddies. The concealed air by-pass permits constant air flow into the chambers when the sashes are in the fully closed positions. These features result in a smaller volume of air exhausted and a constant removal of air from the laboratories, making it possible for the hoods to be a part of the exhaust system in the air-conditioned laboratories.

Services to be provided: 4- electric, 2- hose ends for gas, 2- hose ends for vacuum, 2- hose ends for air, 2- hose ends for water, 8- remote controls, 1- flourescent lighting fixture with switch and 1- motor starting switch with pilot light. No piping, conduit, or wiring from service fixtures are included.

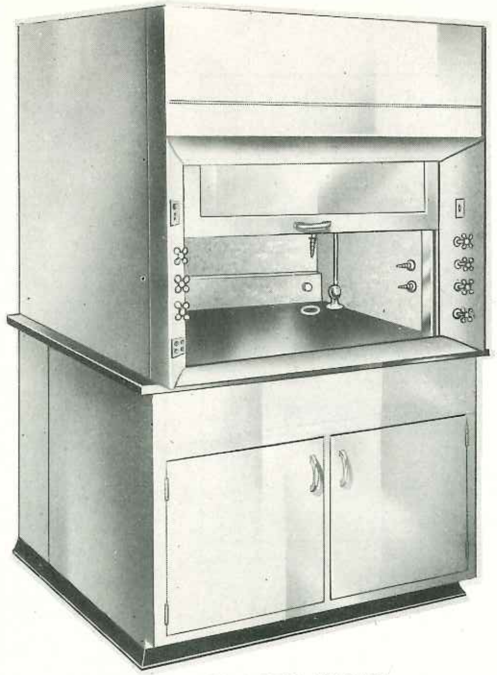
Typical duct locations and roughing in details for **HVAEH** and **HHAEH Fume Hoods.**
All piping, conduit and wiring from valves by others.





TYPICAL ELEVATIONS
6 FOOT FUME HOOD

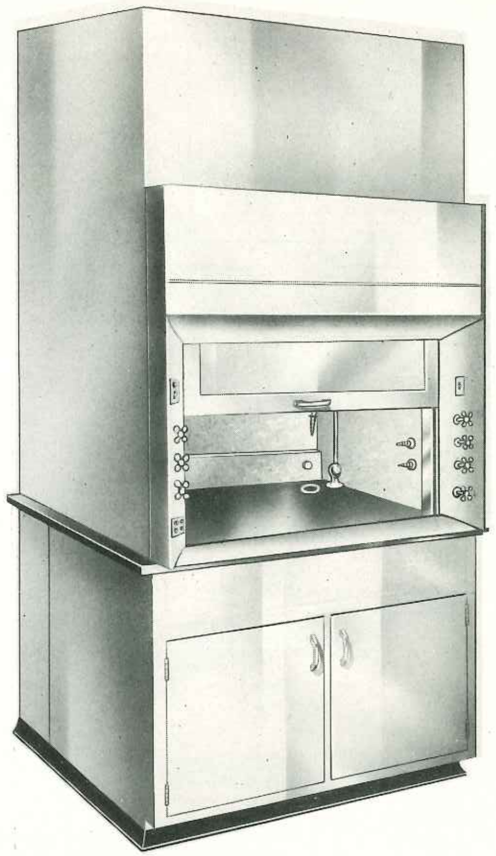
Air Entrainment FUME HOODS *Air By-Pass*



HDBH TYPE HOODS

Cat. No.	Length	Width	Height	Lining
***HDBH104C**	4'1"	3'0"	7'2½"	Colorlith
***HDBH105C**	5'1"	3'0"	7'2½"	Colorlith
HDBH106C	6'0"	3'0"	7'2½"	Colorlith
HDBH108C	8'0"	3'0"	7'2½"	Colorlith
***HDBH104T**	4'1"	3'0"	7'2½"	Transite
***HDBH105T**	5'1"	3'0"	7'2½"	Transite
HDBH106T	6'0"	3'0"	7'2½"	Transite
HDBH108T	8'0"	3'0"	7'2½"	Transite

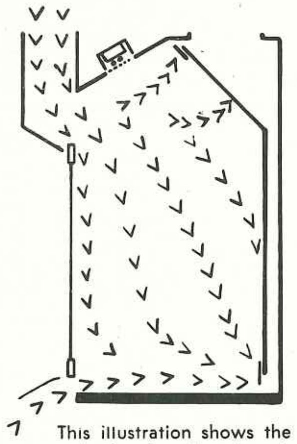
* Single supporting cabinet
C — ¼" Charcoal gray Colorlith
T — ¼" Chemically treated Transite



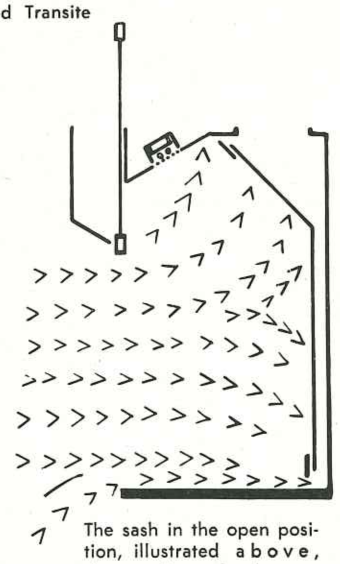
HDBHE TYPE HOODS with Ceiling Enclosure

Cat. No.	Length	Width	Height	Lining
***HDBHE104C**	4'1"	3'0"	10'0"	Colorlith
***HDBHE105C**	5'1"	3'0"	10'0"	Colorlith
HDBHE106C	6'0"	3'0"	10'0"	Colorlith
HDBHE108C	8'0"	3'0"	10'0"	Colorlith
***HDBHE104T**	4'1"	3'0"	10'0"	Transite
***HDBHE105T**	5'1"	3'0"	10'0"	Transite
HDBHE106T	6'0"	3'0"	10'0"	Transite
HDBHE108T	8'0"	3'0"	10'0"	Transite

If shorter or longer enclosure panels are required, please give ceiling height. All working counters are 37" high.



This illustration shows the sash in the closed position. The flow of air into the chamber is constantly maintained with the air entering below the stainless working counter air-foil vane and through the air by-pass above the sash. The air by-pass opens and closes automatically with the operation of the sliding sash.



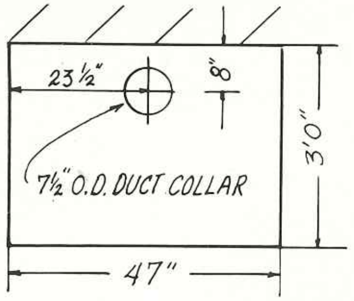
The sash in the open position, illustrated above, closes the air by-pass whereby the air being exhausted enters the chamber through the front sash opening. The working counter air-foil vane creates a desirable current at the counter level for evacuating heavier-than-air fumes. The flow of air can additionally be controlled by the adjustable baffle plates.

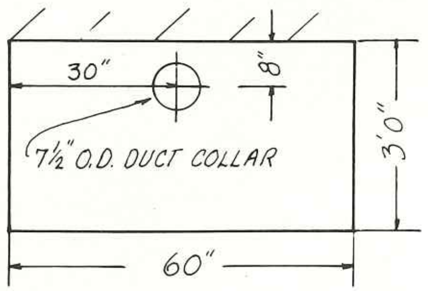
If requested any of the other baffle arrangements shown on page 20 can be provided.

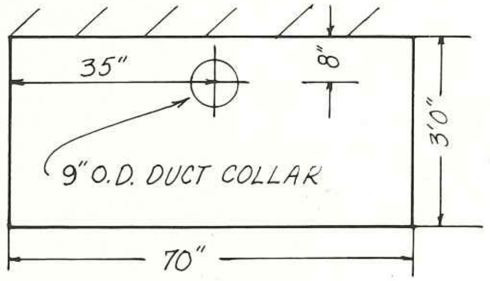
These hoods have the same unique air entrainment, air by-pass feature described on Page 8. The exteriors are lead coated sheet steel with a baked-on acid resistant Epon finish. Interiors can be provided with Colorlith or Transite. All working counters are constructed of 1¼" thick charcoal gray Colorlith. Hoods are provided with a type B2 baffle constructed of the same material as the lining.

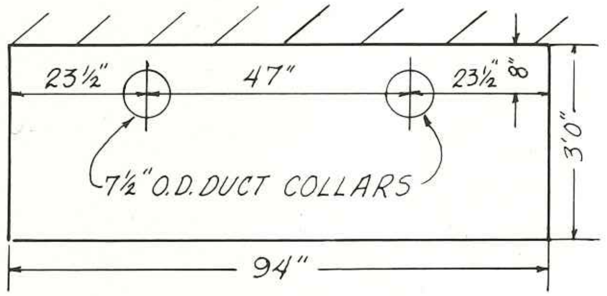
Services to be provided: 1- 3" diameter lead bowl, 1- cold water gooseneck, 2- hose ends for gas, 2- hose ends for air, 2- hose ends for vacuum, 7- remote controls, 1- flourescent lighting fixture with switch, 1- motor starting switch with pilot light and 4- electric. No piping, conduit or wiring from service fixtures are included.

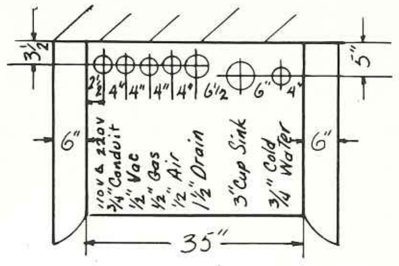
Typical duct locations and roughing in details for **HDBH** and **HDBHE Fume Hoods.**
All piping, conduit and wiring from valves by others.

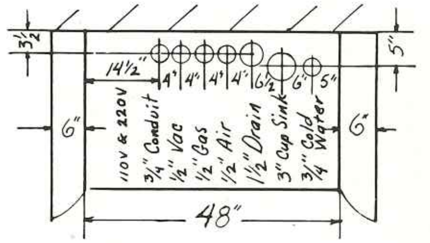


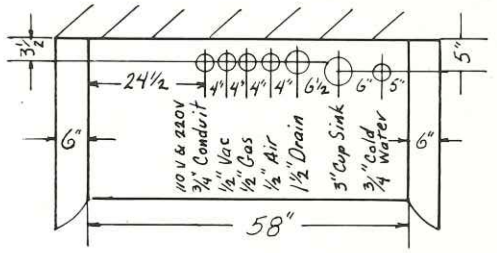


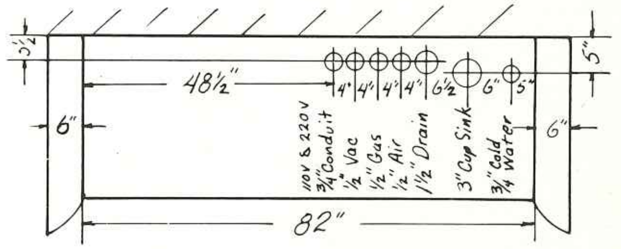


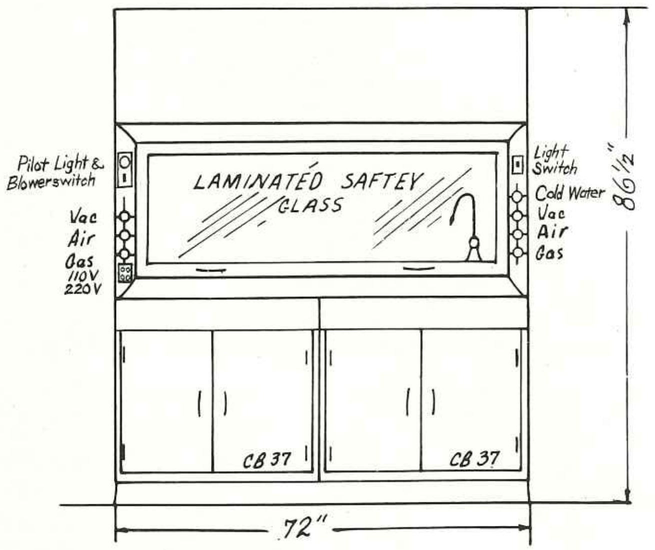




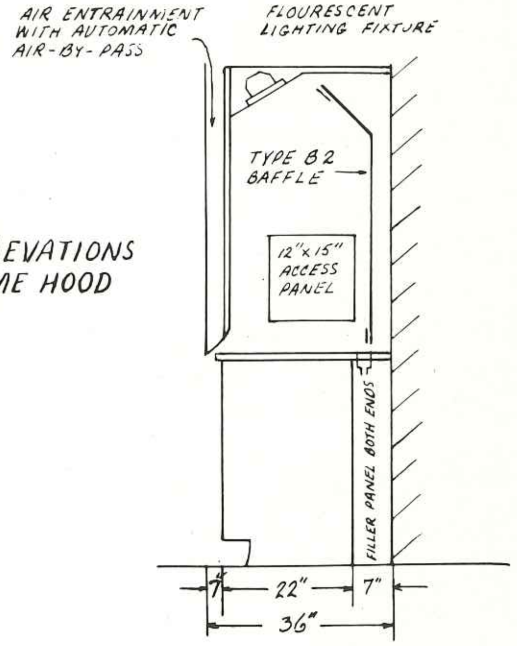




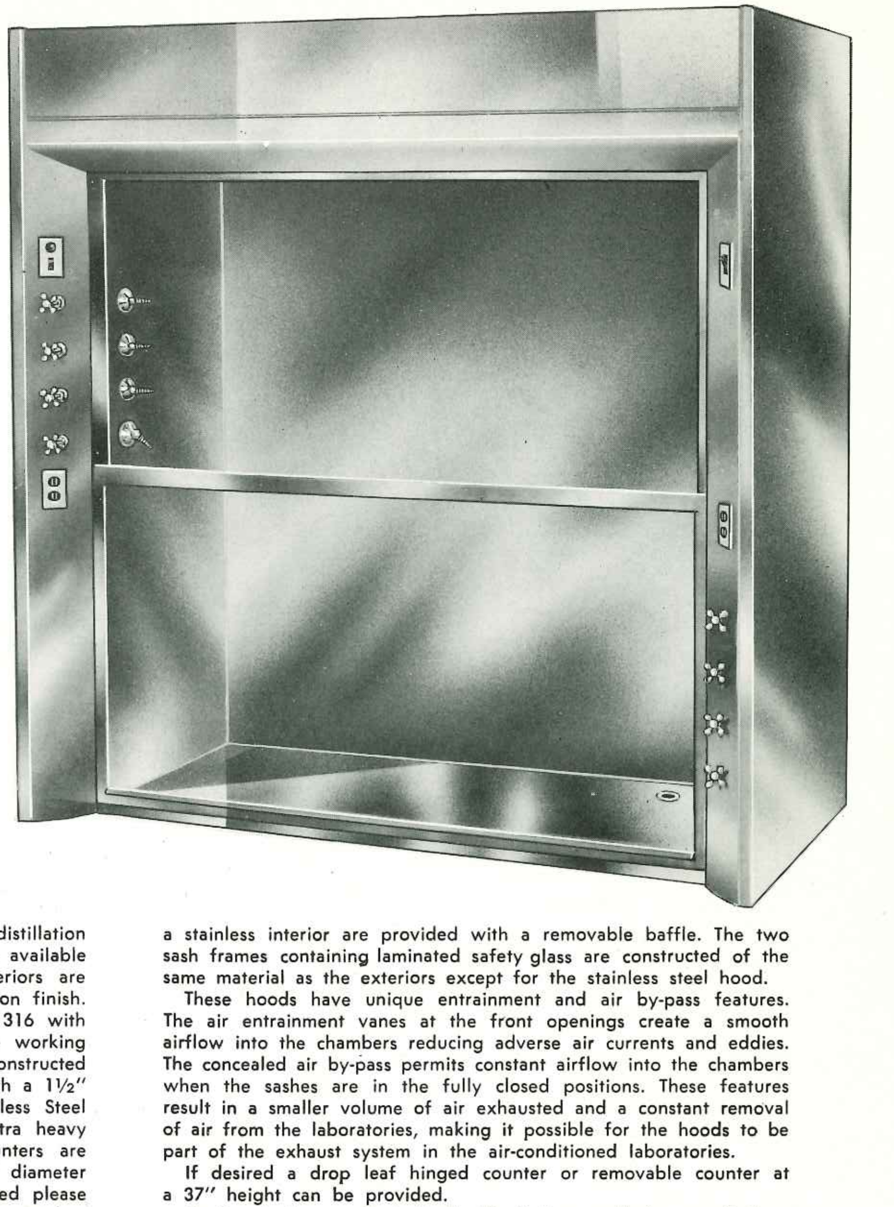




TYPICAL ELEVATIONS
6 FOOT FUME HOOD


AIR ENTRAINMENT WITH AUTOMATIC AIR-BY-PASS
FLOURESCENT LIGHTING FIXTURE
TYPE B2 BAFFLE
12"x15" ACCESS PANEL
FILLER PANEL BOTH ENDS
7"
22"
7"
36"

Air Entrainment WALK IN FUME HOODS *Air By-Pass*



HWIAF TYPE HOOD

Cat. No.	Length	Width	Height	Lining
HWIAF60C	5'1"	3'0"	8'0"	Colorlith
HWIAF72C	6'0"	3'0"	8'0"	Colorlith
HWIAF84C	7'0"	3'0"	8'0"	Colorlith
HWIAF60T	5'1"	3'0"	8'0"	Transite
HWIAF72T	6'0"	3'0"	8'0"	Transite
HWIAF84T	7'0"	3'0"	8'0"	Transite
HWIAF60S	5'1"	3'0"	8'0"	Stainless
HWIAF72S	6'0"	3'0"	8'0"	Stainless
HWIAF84S	7'0"	3'0"	8'0"	Stainless

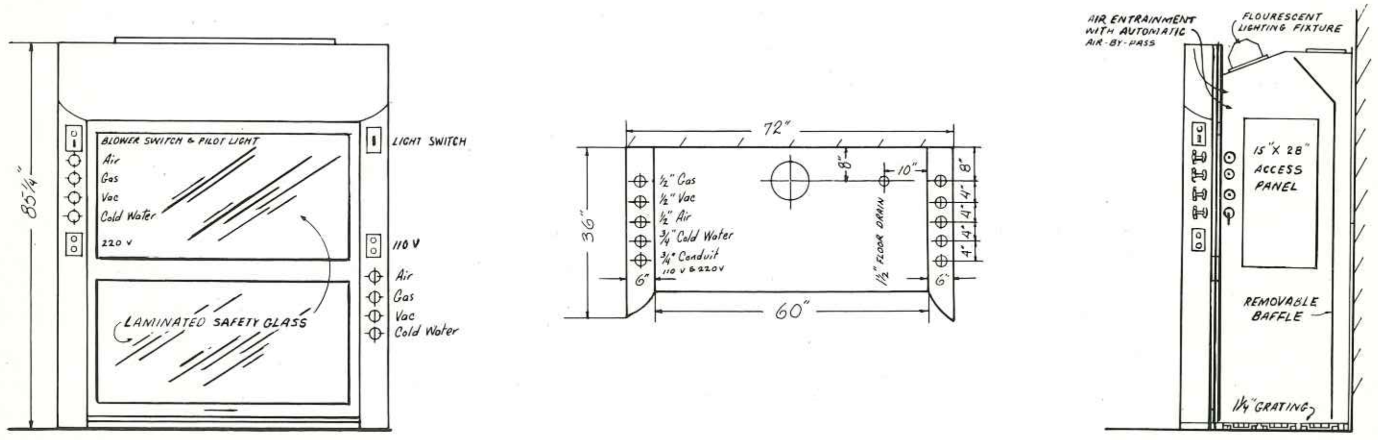
C — ¼" Charcoal gray Colorlith
T — ¼" Chemically treated Transite
S — Stainless Steel, specify type 302 or 316

Walk-in Type Fume Hoods are particularly useful for distillation work and extremely tall apparatus. The lined interiors are available in either Stainless Steel, Transite or Colorlith. The exteriors are lead coated sheet steel with a baked-on acid resistant Epon finish. The stainless steel linings are available in Types 302 or 316 with a 2B or #4 finish. Please specify type and finish. The working counters for the Transite and Colorlith lined hoods are constructed of 1¼" thick charcoal gray Colorlith, and is provided with a 1½" diameter lead drain. The working counters for the Stainless Steel lined hoods are constructed of stainless steel having extra heavy reinforcing to support lead barriers. Stainless Steel counters are formed into a ⅜" deep watertight pan and has a 1½" diameter stainless steel drain. If a stainless steel interior is required please specify the type of construction; e.g., overlap spot welded, seamless welded, seamless welded with coved interiors. A stainless steel wash down spray can be provided if specified. Hoods are provided with a baffle having an adjustable top, middle and bottom exhaust openings constructed of the same material as the lining. Hoods with a stainless interior are provided with a removable baffle. The two sash frames containing laminated safety glass are constructed of the same material as the exteriors except for the stainless steel hood.

These hoods have unique entrainment and air by-pass features. The air entrainment vanes at the front openings create a smooth airflow into the chambers reducing adverse air currents and eddies. The concealed air by-pass permits constant airflow into the chambers when the sashes are in the fully closed positions. These features result in a smaller volume of air exhausted and a constant removal of air from the laboratories, making it possible for the hoods to be part of the exhaust system in the air-conditioned laboratories.

If desired a drop leaf hinged counter or removable counter at a 37" height can be provided.

Services to be provided: 4- electric, 2- hose ends for gas, 2- hose ends for air, 2- hose ends for vacuum, 2- hose ends for water, 8- remote controls, 1- flourescent lighting fixture with switch and 1- motor starting switch with pilot light. No piping, conduit or wiring from service fixtures are included.



Typical duct locations and roughing in details for **HWIAF Fume Hoods.** All piping, conduit and wiring by others.

Special Purpose FUME HOODS *Special Purpose*

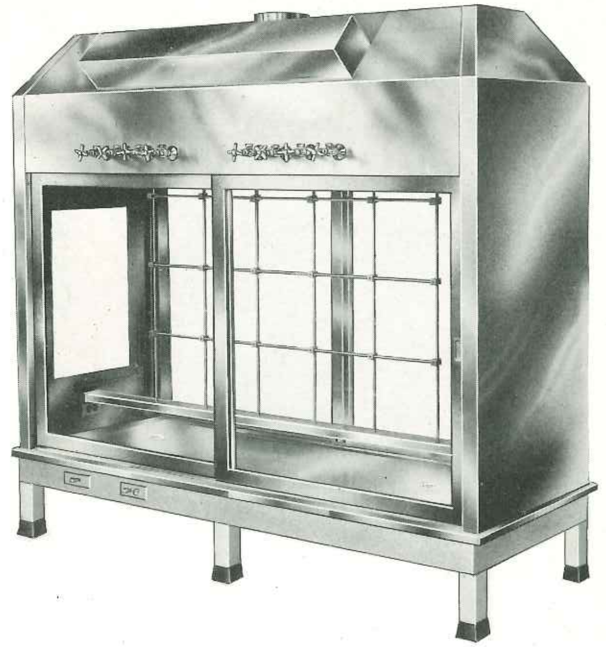
The HDBLF Type Fume Hoods are especially useful where tall apparatus set-ups are needed. The hood chamber is accessible on three sides. The complete Fume Hood is constructed of Stainless Steel except for the understructure. Please specify Type 302 or 316 stainless steel and type of construction, e.g., overlap spot welded, seamless welded. Distillation rack is also constructed of stainless steel.

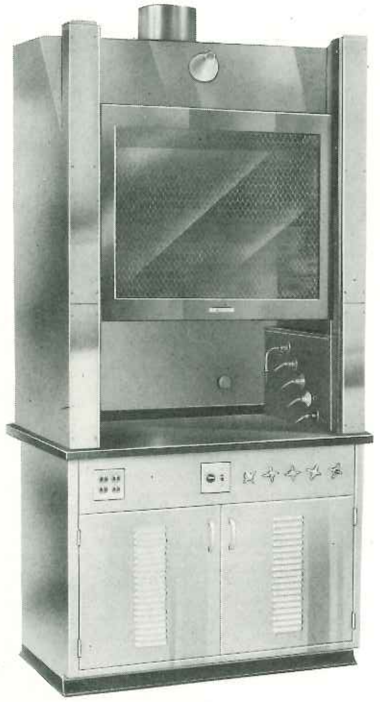
Counters are 18" high.

Services to be provided: 2- flourescent lighting fixtures with switch, 2- gas hose ends, 2- air hose ends, 2- vacuum hose ends, 2- cold water hose ends, 8- remote controls, 2- 5" diameter stainless steel cup sinks, 4- electric, 1- motor starting switch with pilot light. No piping, conduit or wiring from valves are provided.

HOODS HDBLF106 to HDBLF108

Cat. No.	Length	Width	Height
HDBLF106	6'0"	3'0"	7'8"
HDBLF107	7'0"	3'0"	7'8"
HDBLF108	8'0"	3'0"	7'8"





HOODS HBARC49 to HBARC72

Special purpose fume hood where a high degree of resistance to acids and fumes are required. Complete superstructure including exterior, interior, type B2 baffle and counter is constructed of charcoal gray Colorlith. All Colorlith provided is given an acid resistant baked-on Duracoat finish. If the Duracoat finish is not necessary please specify.

Services to be provided: 1- hose end for cold water, 1- hose end for vacuum, 1- hose end for air, 1- hose end for gas, 1- hose end for steam, 5- remote controls, 4- electric, 1- vapor proof lighting fixture with switch and 1- motor starting switch and pilot light. If a steam heated drying cabinet is desired please use the suffix HDS. If an electric heated drying cabinet is desired please use the suffix HDE.

Cat. No.	Length	Width	Height
HBARC49	4'1"	2'6"	8'0"
HBARC60	5'1"	2'6"	8'0"
***HBARC72**	6'1"	2'6"	8'0"

* 2 supporting units

Duralab "Butterfly Baffle" type hoods are designed for operation in air conditioned laboratories, where the quantity of air exhausted by a standard hood would place a burden on the air conditioning system. The use of the standard hood would further burden the air conditioning system since the exhausted air flowing thru the hoods is not constant and is only required when the hood is in use. Thus the burden on the air conditioning system may vary considerably.

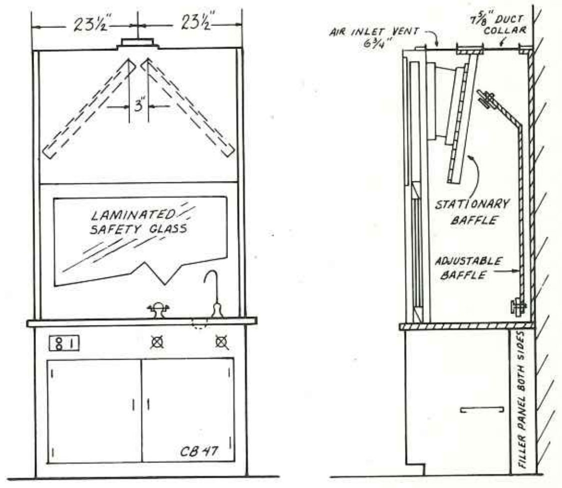
Duralab "Butterfly Baffle" hoods take but 25% of the exhausted air requirements from the air conditioned laboratory and introduce thru a special chamber, from an external source, 75% of the exhausted air. This supplemental air is introduced above the sash forming a curtain of air across the hood opening, thus reducing the inpour of air from the air conditioned room to but 25% of established requirements.

The contaminated fumes within the hood proper are exhausted thru the baffle by the action of the exhaust fan, in the usual manner. Therefore, the use of this hood alleviates the excessive burden on the air conditioning system but retains efficient fume hood operation.

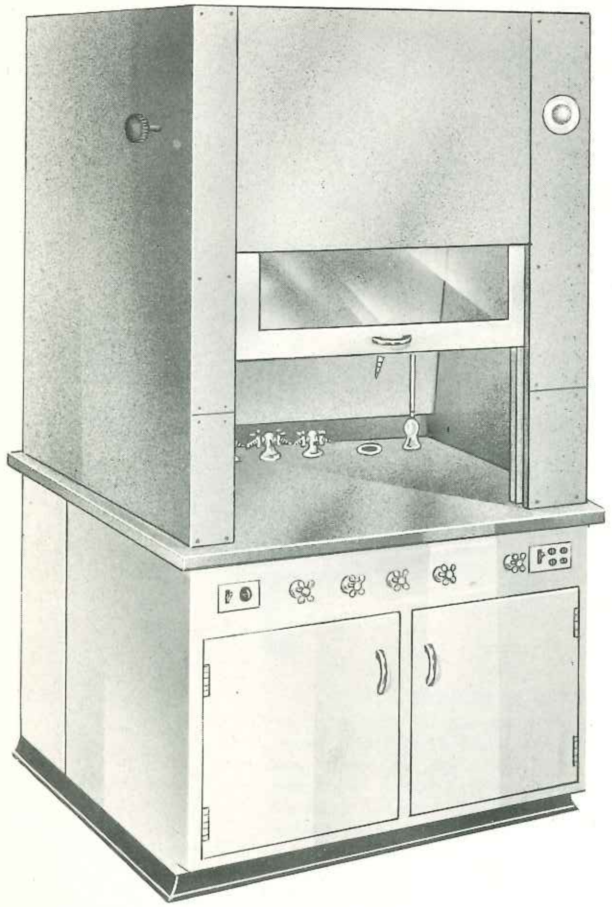
These hoods are constructed of the same materials as the HSCH type hoods described on Page 18.

Services to be provided: 1- 3" diameter lead bowl, 1- cold water gooseneck, 2- gas, 2- remote controls, 2- electric, 1- vapor proof lighting fixture with switch.

Counters are constructed of 1¼" thick charcoal gray Colorlith and are 37" high.



Cat. No.	Length	Width	Height
HDBUT49	4'1"	2'6"	**8'0"**
HDBUT61	5'1"	2'6"	**8'0"**
HDBUT72	6'0"	2'6"	**8'0"**

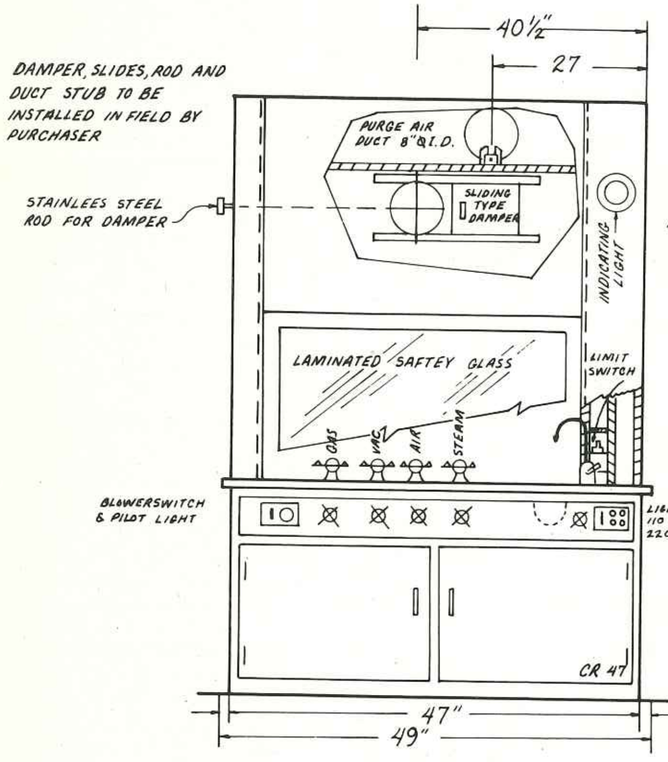


Daircol Fume Hoods are constructed for use in an air-conditioned laboratory without disturbing the balance of the air-conditioning system. The Daircol Hoods are especially useful where carefully controlled atmospheric conditions are needed. Purged air entering the hood by means of the provided openings is dispersed in a manner that reduces turbulence and condensation.

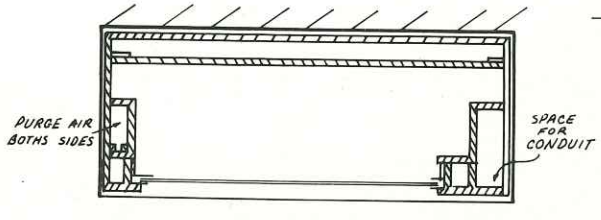
Air is exhausted at all times through the rear duct opening. When the sash is lowered it trips the limit switch thus activating the solenoid and allowing the supplemental air to enter at the top. This unique arrangement always provides for a pressurized condition to remain in the fume hood chamber.

Complete interior and exterior of Fume Hood Superstructure is constructed of charcoal gray Colorlith. If an acid resistant Duracoat finish is desired please specify.

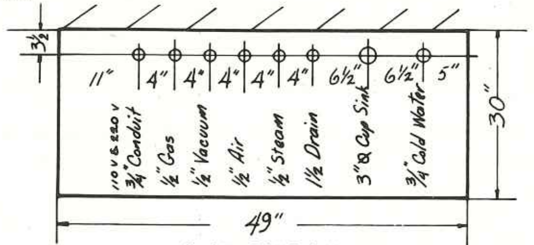
Cat. No.	Length	Width	Height
DAIRCOL104	4′1″	2′6″	8′0″
DAIRCOL105	5′1″	2′6″	8′0″
DAIRCOL106	6′0″	2′6″	8′0″



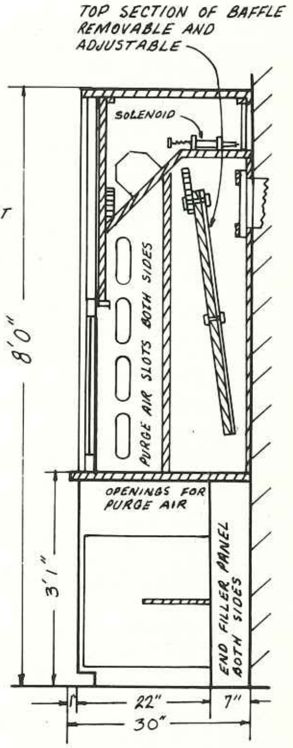
FRONT ELEVATION
ALL PIPING, CONDUIT & WIRING BY OTHERS



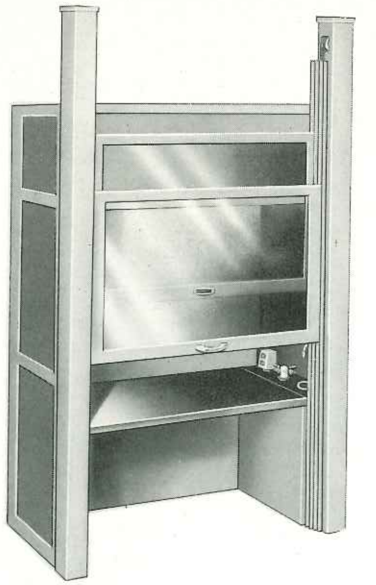
SECTION THROUGH HOOD SUPERSTRUCTURE



PLAN-ROUGHING IN


TOP SECTION OF BAFFLE REMOVABLE AND ADJUSTABLE
SOLENOID
PURGE AIR SLOTS BOTH SIDES
8′0″
OPENINGS FOR PURGE AIR
3′1″
END FILLER PANEL BOTH SIDES
22″
7″
30″

SECTION THRU ASSEMBLY

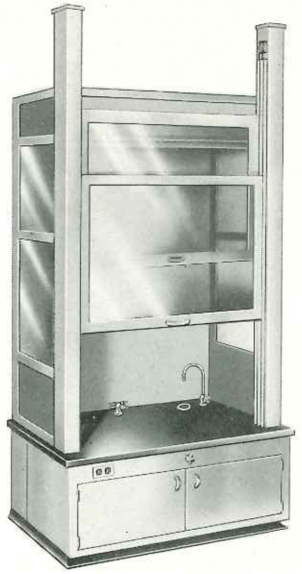


HOODS HCHF48 to HCHF72

Closed Type Floor Hood with a double hung sash. Hood is provided with a hinged ¾″ thick charcoal gray Colorlith counter 37″ high and an enclosed service shelf at each side. The interior is lined with ¼″ thick chemically treated Transite.

Services to be provided: 4- electric, 2- air, 2- gas, 2- vacuum, 1- 3″ diameter bowl and 1- cold water.

Cat. No.	Length	Width	Height
HCHF48	4′0″	2′6″	10′0″
HCHF60	5′0″	2′6″	10′0″
HCHF72	6′0″	2′6″	10′0″



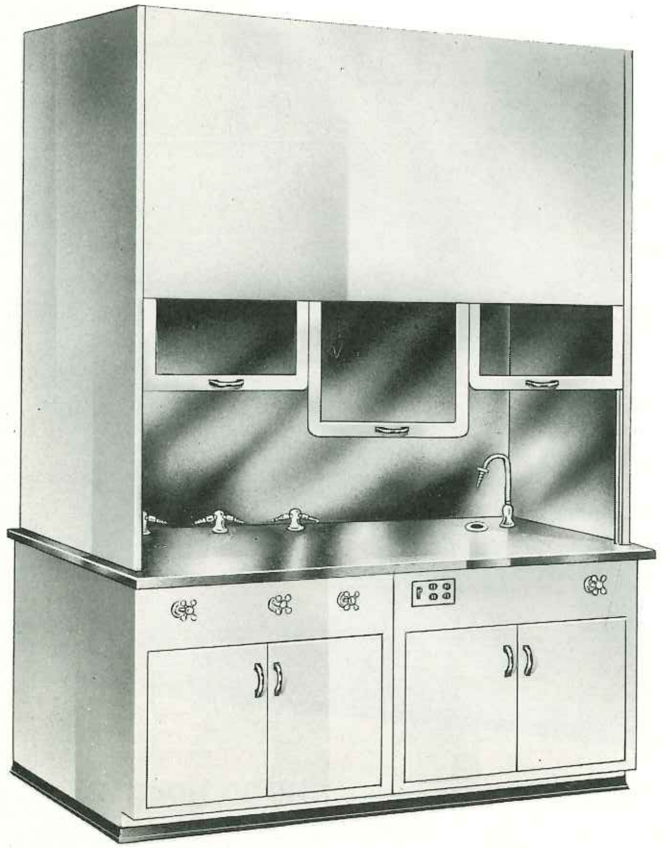
HOODS HCHH49 to HCHH72

Hood having a double hung sash with enameled lead coated heavy gauge steel superstructure. The interior is lined with ¼″ thick chemically treated Transite. The chamber is 81″ high on a 24″ high counter. Counter is constructed of 1¼″ thick charcoal gray Colorlith.

Services to be included: 2- electric, 2- gas, 1- 3″ diameter lead bowl, 1- cold water and 1- remote control.

Cat. No.	Length	Width	Height
HCHH49	4′1″	2′6″	10′0″
HCHH60	5′1″	2′6″	10′0″
***HCHH72**	6′0″	2′6″	10′0″

* 2 supporting units



HOODS HSCUPT72 to HSCUPS96

Cat. No.	Length	Width	Height	Lining
HSCUPT72	6′0″	2′6″	9′0″	Transite
HSCUPT84	7′0″	2′6″	9′0″	Transite
HSCUPT96	8′0″	2′6″	9′0″	Transite
HSCUPC72	6′0″	2′6″	9′0″	Colorlith
HSCUPC84	7′0″	2′6″	9′0″	Colorlith
HSCUPC96	8′0″	2′6″	9′0″	Colorlith
HSCUPS72	6′0″	2′6″	9′0″	Stainless
HSCUPS84	7′0″	2′6″	9′0″	Stainless
HSCUPS96	8′0″	2′6″	9′0″	Stainless

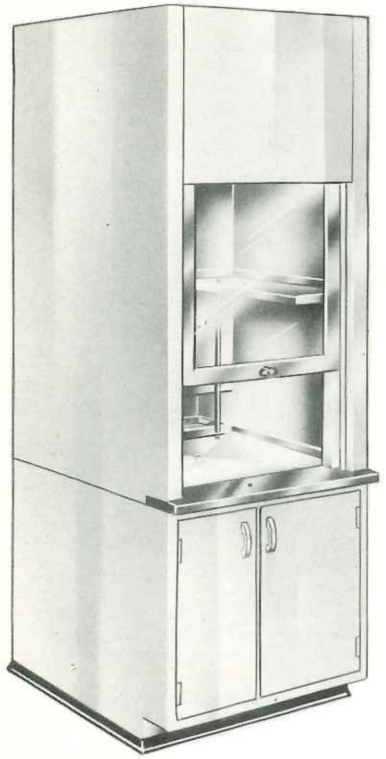
T — ¼″ Chemically treated Transite
C — ¼″ Charcoal gray Colorlith
S — Stainless Steel, please specify Type 302 or 316

The HSCUP Type Fume Hoods have a lead coated reinforced sheet steel enclosure at the sides and at the front above the opening, with the sashes riding up and behind the front enclosure. These Fume Hoods are counterbalanced at the rear, thus giving a clear unobstructed working area. The Transite and Colorlith lined hoods are provided with a 1¼″ thick charcoal gray Colorlith counter, a type B2 baffle and a 3″ diameter lead bowl. The stainless steel lined hood is provided with a stainless steel working counter having extra heavy reinforcing to support lead barriers. Stainless steel counters are provided with a 3″ diameter stainless steel drain bowl. If a stainless steel interior is required please specify the type of construction; e.g., overlap spot welded, seamless welded. A stainless steel wash down spray can also be provided if specified.

Working counters are 37″ high.

Services to be provided: 4- electric, 1- cold water, 2- gas, 2- vacuum, 2- air, 1- flourescent lighting fixture with switch and 4- remote controls.

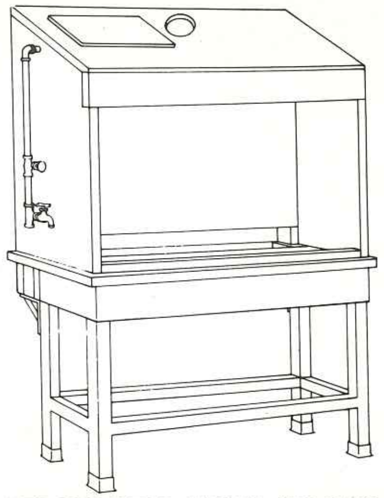
Special Purpose FUME HOODS *Special Purpose*



ETHYL HOODS
EH-100 and EH-101

This hood has been designed for the storage and handling of anti-knock compounds and equipment required in the preparation of standard dilutions for laboratory purposes. Special features are built into this assembly because of the poisonous characteristics of "Ethyl" antiknock compounds. When the sliding sash is locked in its closed position a latching mechanism engages the cupboard doors and locks the complete assembly. Baffles are constructed for evacuation of fumes from the cupboard. The hood is equipped with fluorescent or explosion proof incandesecent lighting fixture and is furnished with stainless steel counter, curbed stainless steel shelves having draines, burette rod clamp support in the upper chamber. Litre can storage compartment and fuel can shelf with drain cock are provided in the lower section. The chamber is lined with ¼" Transite or ¼" Chemstone.

Cat. No.	Length	Width	Height	Lining
EH-100	2'-6"	2'-6"	8'-2"	Transite
EH-101	2'-6"	2'-6"	8-'2"	Colorlith



PERCHLORIC FUME HOODS

A hood for perchloric acid work must be practically non-absorbent. The fume chamber with a Type B1 baffle, working counter with raised rim at the front and the trough are Alberene stone. This is shipped knocked-down and is assembled in the laboratory with lead free cement. A stainless steel spray device is furnished for within the chamber with control valve and bibb. The bibb provides a convenient connection for hose when washing down the chamber. In the roof of the chamber there is a colorlith covered access opening for cleaning. Closed type fume hoods are provided with Alberene stone posts and type 316 stainless steel sash frames.

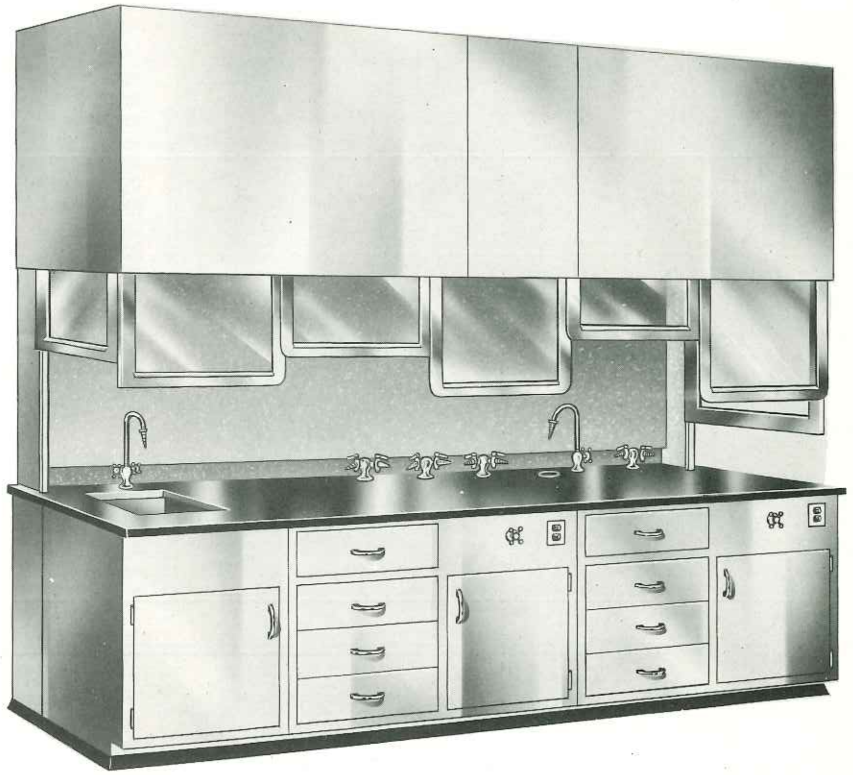
Cat. No.	Length	Width	Height
HPHC37	3'1"	2'6"	7'7"
HPHC49	4'1"	2'6"	7'7"
HPHC61	5'1"	2'6"	7'7"

HOOD HDUH120

The unique design of this hood affords an unobstructed working area for the entire length and both ends. The sliding stainless steel sashes at the front and ends are suspended from the hood framework on stainless steel tape spring balances and mild steel sash tracks having ball bearing rollers.

The hood enclosure is provided with gaskets along the perimeter sealing the enclosed area from the hood chamber and enabling a positive pressure being created in the enclosed area. The sink at the left end is 18" x 18" x 8", outside dimensions. The chamber is lined with ¼" thick Transite and is provided with a Type B1 Baffle. Alberene Stone and Colorlith Linings can be furnished when so ordered. The hood illustrated is but one of the many hoods that are available with this unique design. Consult with us for other hoods.

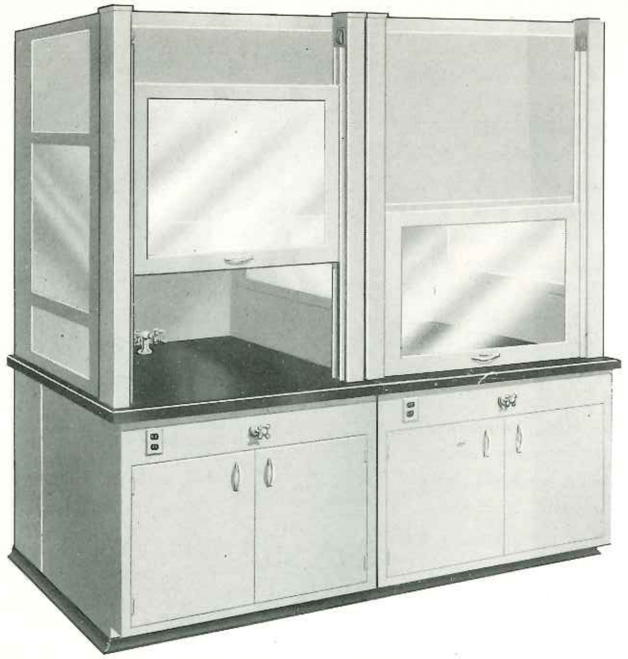
SERVICE FIXTURES: 4 Electric, 2 Air, 2 Vacuum, 4 Gas with Remote Controls, 1 Cold Water, 1- 3" Diameter Lead Bowl and 1 Hot and Cold Water Fixture.



HOOD HDUH120

Cat. No.	Length	Width	Height
HDUH120	10'-0"	2'-6"	10'-0"

Standard FUME HOOD *Assemblies*



HOODS HCHD72 to HCHD142

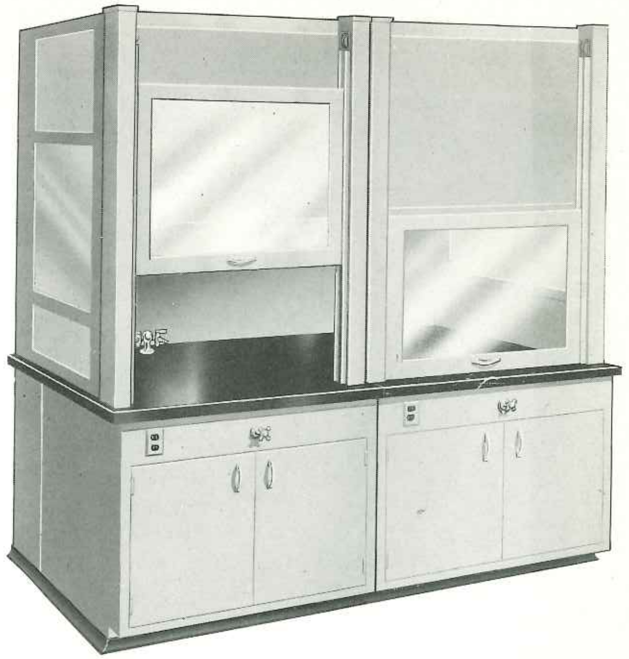
Closed Type Double Compartment Hood. A sliding sash can be provided in the partition at additional cost. Specify when required. Counters constructed of 1¼" thick charcoal gray Colorlith and interiors constructed of ¼" thick Transite, unless otherwise requested.

Working counters 37" high.

Services to include 4- gas with remote controls and 4- electric.

Cat. No.	Length	Width	Height
HCHD72	6'0"	2'6"	8'0"
HCHD96	8'0"	2'6"	8'0"
HCHD120	10'0"	2'6"	8'0"
***HCHD142**	11'10"	2'6"	8'0"

* Support consist of 4 cabinets



HOODS HCHS72 to HCHS142

Closed Type Hood having single compartment with two sliding sashes. This type of hood has clear working area without center partition. Counters constructed of 1¼" thick charcoal gray Colorlith and interiors constructed of ¼" thick Transite, unless otherwise requested.

Working counters 37" high.

Services to include 4- gas with remote controls and 4- electric.

Cat. No.	Length	Width	Height
HCHS72	6'0"	2'6"	8'0"
HCHS96	8'0"	2'6"	8'0"
HCHS120	10'0"	2'6"	8'0"
***HCHS142**	11'10"	2'6"	8'0"

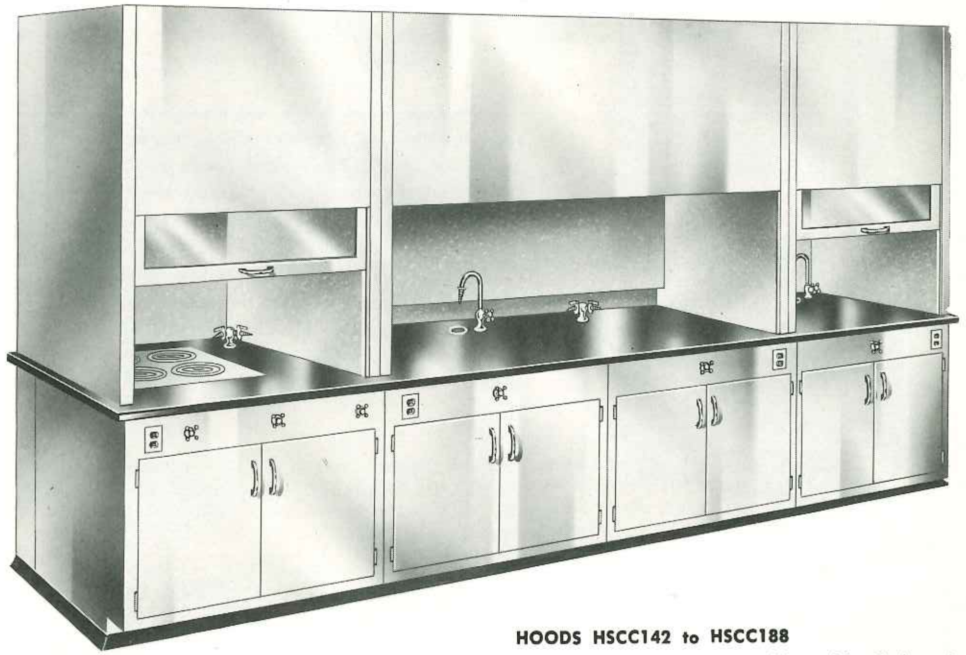
* Support consists of 4 cabinets

The hoods illustrated at the right are Type HSCH and Type HSOH hoods having enameled lead coated sheet steel exteriors with ¼" thick Transite interiors and 1¼" thick charcoal gray Colorlith counters.

Counters are 37" high.

Hoods may be arranged in batteries consisting of all open type hoods, all closed type hoods, or a combination of open and closed type hoods. The hood supporting cabinets have removable backs for easy access to the pipe spaces at the rear.

Working counters if requested can be constructed of Alberene Stone, Stainless Steel, Transite and Formica. Hoods may be equipped with additional service fixtures, steambaths, sinks and lighting fixtures when requested.

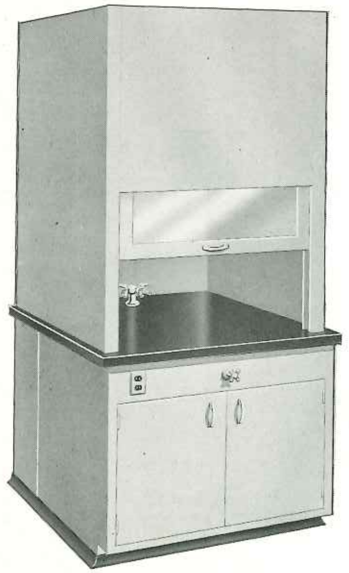


HOODS HSCC142 to HSCC188

Combination Open and Closed Type Fume Hood Assembly. Each end compartment is a Type HSCH Hood with sliding sash at the front and the center compartment is a Type HSOH Hood provided with 2- Cold Water and 2- 3" Diameter Lead Bowls.

Cat. No.	Length	Width	Height
HSCC142	11'-10"	2'-6"	8'-0"
HSCC164	13'-10"	2'-6"	8'-0"
HSCC188	15'-10"	2'-6"	8'-0"

Closed, Standard FUME HOODS *Open, Standard*

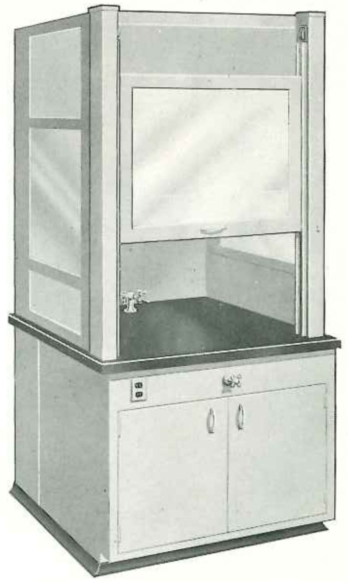


The HSCH type Fume Hoods have a lead coated reinforced sheet steel enclosure at the sides and at the front above the opening, with the sashes riding up and behind the front enclosure. These Fume Hoods are counterbalanced at the rear, thus giving a clear unobstructed working area. HSCH type Fume Hoods are readily adaptable for Stainless Steel linings and counters. If so desired, please specify.

The HCH type Fume Hoods have an all welded twelve-gauge lead coated steel frame superstructure. Safety glass windows in the sides with transite glazing strips can be provided if so specified. The HSCH and HCH type Fume Hoods shown are provided with ¼" thick Transite interiors, 1¼" thick charcoal gray Colorlith counters, 2- gas with remote control and 2- electric.

If ¼" thick charcoal gray Colorlith interiors are desired use the suffix "C".

HSCH type Fume Hoods can be provided with air-by-pass feature if desired.



HOODS HSCH37 to HSCH72
CLOSED TYPE

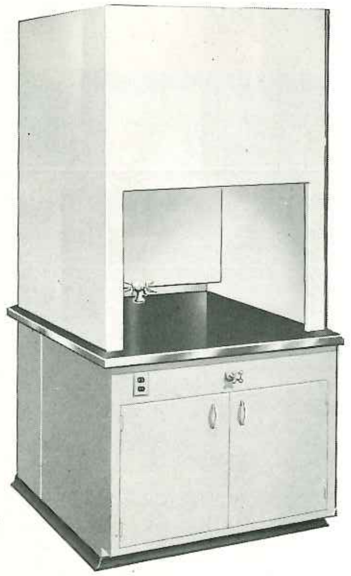
Cat. No.	Length	Width	Height
HSCH37	3'1"	2'6"	8'0"
HSCH49	4'1"	2'6"	8'0"
HSCH61	5'1"	2'6"	8'0"
***HSCH72**	6'0"	2'6"	8'0"

* Support consist of 2 cabinets

HOODS HCH37 to HCH72
CLOSED TYPE

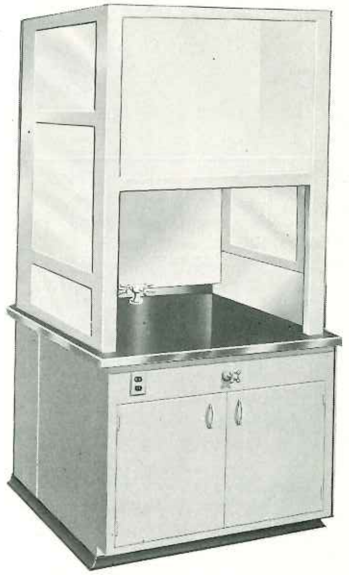
Cat. No.	Length	Width	Height
HCH37	3'1"	2'6"	8'0"
HCH49	4'1"	2'6"	8'0"
HCH61	5'1"	2'6"	8'0"
***HCH72**	6'0"	2'6"	8'0"

* Support consist of 2 cabinets



Open type fume hoods are constructed of the same materials as described above for the closed type fume hoods. These fume hoods as all others shown and described in this Catalog are designed for efficient removal of obnoxious odors and fumes.

Fume Hoods shown are provided with ¼" thick Transite interiors, 1¼" thick charcoal gray Colorlith counters, 2- gas with remote control, 2- electric and type B1 baffle. All HCH and HOH type fume hoods can be provided with safety glass sides. If desired, please specify.



HOODS HSOH37 to HSOH72
OPEN TYPE

Cat. No.	Length	Width	Height
HSOH37	3'1"	2'6"	8'0"
HSOH49	4'1"	2'6"	8'0"
HSOH61	5'1"	2'6"	8'0"
***HSOH72**	6'0"	2'6"	8'0"

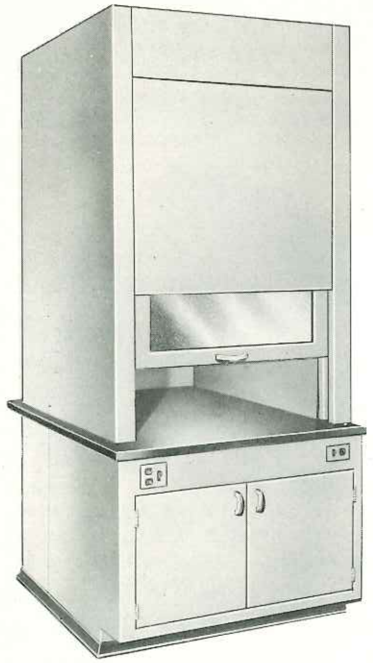
* Support consisting of 2 cabinets

HOODS HOH37 to HOH72
OPEN TYPE

Cat. No.	Length	Width	Height
HOH37	3'1"	2'6"	8'0"
HOH49	4'1"	2'6"	8'0"
HOH61	5'1"	2'6"	8'0"
***HOH72**	6'0"	2'6"	8'0"

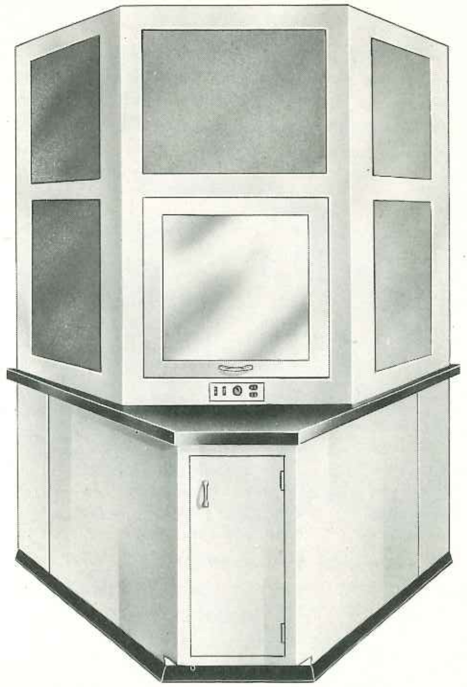
* Support consist of 2 cabinets

Special Purpose FUME HOODS *Special Purpose*



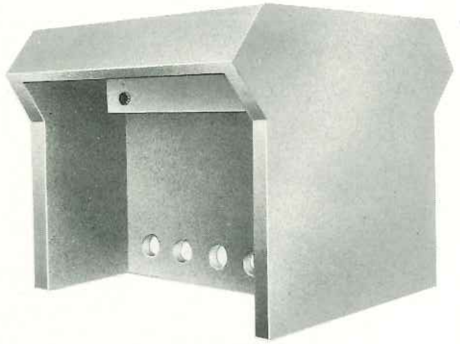
This complete and ready to use Fume Hood has been pre-engineered for immediate installation. The completely clean interiors afford smooth airflow. The complete interior of Fume Hood Chamber is lined with chemically treated Transite, scientifically fitted and cemented into place without any exposed metal within the Chamber. Exterior of Fume Hood is constructed of heavy gauge lead coated sheet steel and finished in a highly chemically resistant Epoxy based baked-on paint, thus affording double protection. Fume hood comes equipped with a factory installed one-sixth H. P. motor, insulated blower platform, motor starting switch and pilot light, vapor-proof lighting fixture with toggle switch and duplex electric receptacle. Additional fixtures can be ordered from pages 22 thru 25 inclusive.

Cat. No.	Length	Width	Height
SCHC49	49"	30"	108"



If your laboratory is cramped for space the Corner Fume Hood is the ideal piece of equipment. The corner Fume Hood is not only functional but adds beauty to the laboratory. This type of Fume Hood utilizes all of the "dead" corner space. The exterior of the Fume Hood is constructed of a heavy gauge angle frame construction, while the interior is lined with chemically treated Transite, scientifically fitted and cemented into place without any exposed metal within the Fume Hood Chamber. Fume Hood comes equipped with a factory installed one-sixth H. P. motor, insulated blower platform, motor starting switch and pilot light, vapor-proof lighting fixture with toggle switch and duplex electric receptacle. Additional fixtures can be ordered from pages 22 thru 25 inclusive.

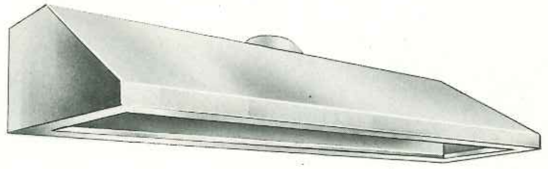
Cat. No.	Length	Width	Height
DCOR39	39"	22"	108"



Down Draft Fume Hoods can be constructed of charcoal gray Colorlith, with or without a Duracoat finish, or Transite. These hoods are especially useful where there is limited table top space and obnoxious odors must be exhausted.

HOODS HSDD21C to HDDD31

Cat. No.	Length	Width	Height	Material
HSDD21C	21"	16¼"	22"	Colorlith
HSDD21BAR	21"	16¼"	22"	Colorlith w/Duracoat finish
HSDD21T	21"	16¼"	22"	Transite
HDDD31C	21"	32"	22"	Colorlith
HDDD31BAR	21"	32"	22"	Colorlith w/Duracoat finish
HDDD31T	21"	32"	22"	Transite



Canopy Hoods are constructed of either enameled lead coated sheet steel, Transite or Stainless Steel, and have a duct on the top for connection to the exhaust system. If ordering stainless steel, please specify type 302 or 316. A drip gutter is provided around the perimeter to collect condensation. A baffle is provided in the interior to increase the air velocity around the hood and to prevent the return of gases.

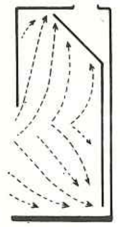
HOODS HCAPY48 to HCAPYS72

Cat. No.	Length	Width	Height	Material
HCAPY48	48"	24"	18"	Enameled Steel
HCAPY60	60"	24"	18"	Enameled Steel
HCAPY72	72"	24"	18"	Enameled Steel
HCAPYS48	48"	24"	18"	Stainless
HCAPYS60	60"	24"	18"	Stainless
HCAPYS72	72"	24"	18"	Stainless

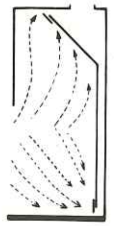
Baffles DRYING CABINETS *Hood Supports*

BASIC ENGINEERING CONCEPT OF BAFFLE DESIGN

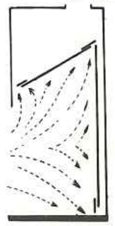
In concentrated Fume Hood work the toxic fumes and obnoxious odors must be exhausted. These fumes and odors are exhausted by means of an exhaust blower through a duct opening at the top of the Fume Chamber. An important principal in designing Fume Hoods is the direction the exhausted air must travel. This design concept is accomplished by scientifically engineered baffle arrangements. These baffle arrangements shown below forms a plenum chamber under the duct opening. The plenum chamber divides the incoming air (which is to be exhausted) into two main air flows. One flows upward and out through the duct opening. The second air flow is drawn across the base of the Fume Chamber, behind the Baffle and up through the duct opening. This unique baffle arrangement enables the entire Fume Hood Chamber to be exhausted of all types of fumes.



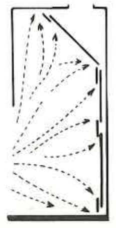
TYPE B1 BAFFLE with fixed openings at top and bottom. This type baffle is furnished in open type hoods, unless otherwise specified.



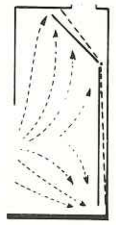
TYPE B2 BAFFLE is provided with one adjustable opening at top and bottom. Openings are equipped with plate type adjustments.



TYPE B3 BAFFLE has two adjustable openings at the top and one adjustable opening at the bottom. Adjustments are plate type.



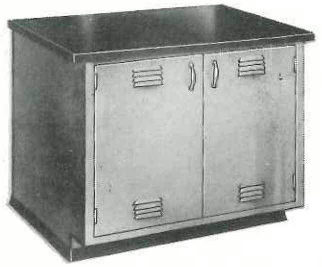
TYPE B4 BAFFLE is provided with four adjustable openings. The center adjustment on the vertical portion is slide type. All other adjustments are plate type.



TYPE B5 BAFFLE has swivel type adjustable opening at the top and the bottom. The baffle shown dotted is in its closed position.

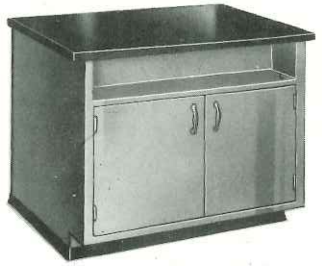
TYPICAL FUME HOODS SUPPORTING UNITS

All fume hood supports shown on this page can be provided in lieu of those shown in fume hood assemblies. If desired please specify. Working counters are available constructed of Alberence stone, Colorlith, stainless steel, Transite and Formica. Please specify working counter material.



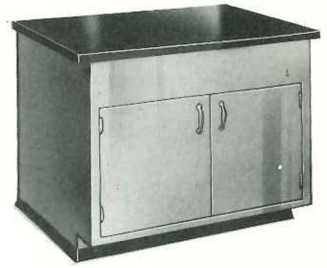
TYPE CB UNIT

Cat. No.	Width	Height	Depth
CB37	35″	35¾″	22″
CB47	47″	35¾″	22″
CB57	59″	35¾″	22″
CB31	35″	29¾″	22″
CB41	47″	29¾″	22″
CB51	59″	29¾″	22″



TYPE CR UNIT

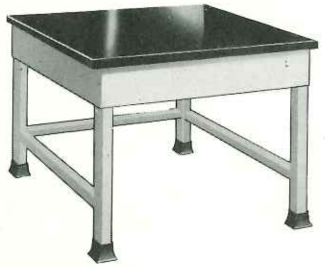
Cat. No.	Width	Height	Depth
CR37	35″	35¾″	22″
CR47	47″	35¾″	22″
CR57	59″	35¾″	22″
CR31	35″	29¾″	22″
CR41	47″	29¾″	22″
CR51	59″	29¾″	22″



TYPE AU UNIT

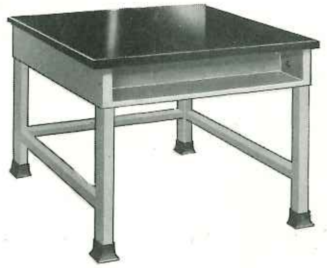
Transite lined for acid storage.

Cat. No.	Width	Height	Depth
AU37	35″	35¾″	22″
AU47	47″	35¾″	22″
AU57	59″	35¾″	22″
AU31	35″	29¾″	22″
AU41	47″	29¾″	22″
AU51	59″	29¾″	22″



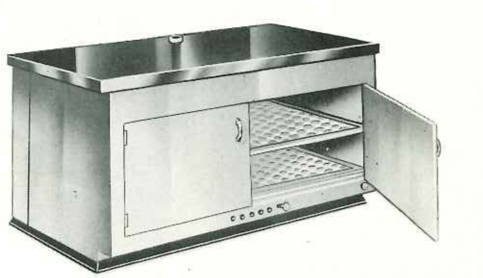
TYPE PH UNIT

Cat. No.	Width	Height	Depth
PH37	35″	35¾″	22″
PH47	47″	35¾″	22″
PH57	59″	35¾″	22″
PH31	35″	29¾″	22″
PH41	47″	29¾″	22″
PH51	59″	29¾″	22″



TYPE PR UNIT

Cat. No.	Width	Height	Depth
PR37	35″	35¾″	22″
PR47	47″	35¾″	22″
PR57	59″	35¾″	22″
PR31	35″	29¾″	22″
PR41	47″	29¾″	22″
PR51	59″	29¾″	22″



DRYING CABINETS are fully insulated, self-venting and are furnished with perforated adjustable shelves. Steam coils or electrical heating elements complete with controls are provided. Electrically heated cabinets have thermostatic controls.

STEAM	ELECTRIC	Length	Depth	Height
HDS-120	**HDE-130**	37″	30″	37″
HDS-121	**HDE-131**	49″	30″	37″
HDS-122	**HDE-132**	61″	30″	37″

All hood supporting units are equipped with leveling devices to compensate for unevenness of the laboratory floor. The cupboards have removable backs for access to the pipe spaces. Cabinets are provided with a half depth removable shelf.

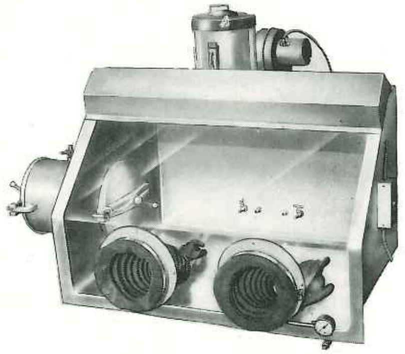
Dry Boxes DURALAB *Glove Boxes*

All Duralab Dry Boxes and Glove Boxes are available in four basic materials, each one with its own characteristics. TRANSPARENT PLASTIC, low cost, optically clear and is suitable for the majority of applications. STAINLESS STEEL is particularly suited for nuclear work because they can be decontaminated with strong chemical agents. EPOXY "CHEMINERT" FIBERGLASS is as strong as steel and as chemically inert as Teflon. POLYVINYLCHLORIDE PLASTIC is translucent, lightweight, has excellent chemical resistance and is unbreakable.

When ordering Duralab Boxes and Glove Boxes please specify the type of material.

All Duralab enclosures have smooth polished crevice-free surfaces with 1″ radius rounded corners to assure absolute cleanliness and decontamination.

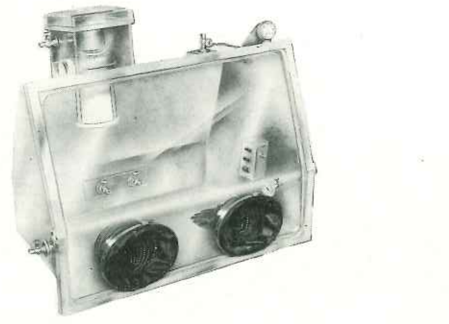
All Dry Boxes and Glove Boxes illustrated are available in 4′, 5′ and 6′ lengths.



LOW INTENSITY DRY BOX

Radioactive materials are made up of millions of small, physically unstable atoms which spontaneously release energy. Eventually they loose the forces that make them radioactive and change back to a non-radioactive state. The time required to change half of the material back to its original state is referred to as the half life of the material.

Cat. No.	Length	Width	Height
DLIDB	3′0″	2′0″	2′0″



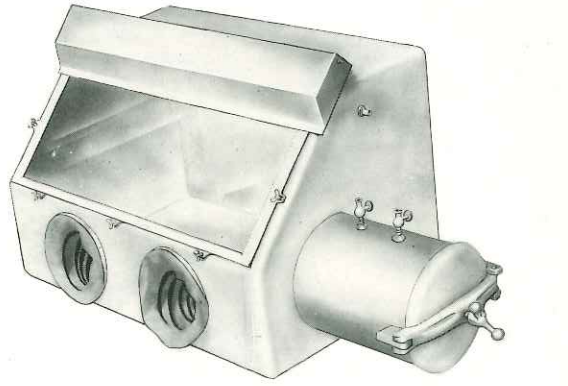
DRY BOX

These Dry Boxes are complete laboratory facilities that confine Alpha and Beta particles. They are specifically designed for nuclear operations involving radiation hazards.

Cat. No.	Length	Width	Height
DDR	3′0″	2′0″	2′0″

"LEAD-RUBBER" GLOVES

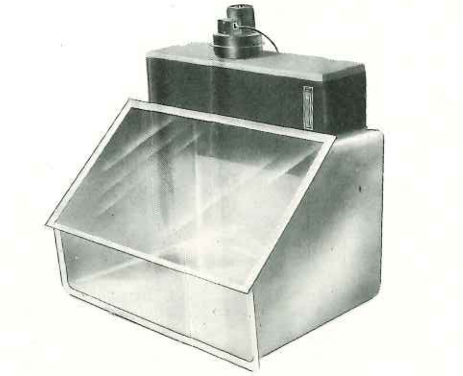
that permit handling of low levels of beta radioactive materials. The gloves are soft and pliable as heavy leather. They are made of a choice of thicknesses equaling 1 to 5 mm. lead shielding. They are designed to fit standard "O" ring systems employed in "Dry-Glove" boxes. Neoprenene rubber gloves are standard with all "Dry Boxes" and "Glove Boxes". If "Lead Rubber" Gloves are desired please specify.



CHEMISTRY GLOVE BOX

Chemical research and analysis require operations with a wide variety of toxic fumes and materials. This is particularly true of modern chemistry which deals with dangerous Fluorine, Isocynate or Amine compounds.

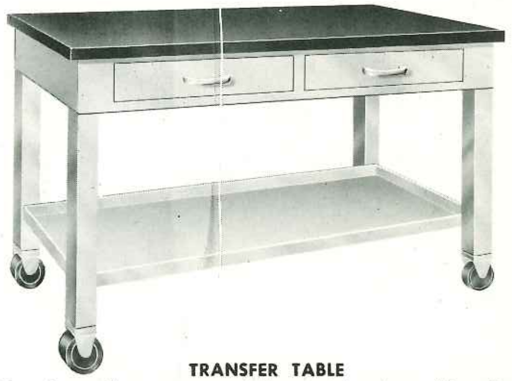
Cat. No.	Length	Width	Height
DCGB	3′0″	2′0″	2′0″



BIOLOGICAL SAFETY CABINET

The "Biological Safety Cabinets" employ a design and construction not only for present day critical controlled atmosphere requirements, but also anticipates conditions and specifications for many years to come.

Cat. No.	Length	Width	Height
DBSC	3′0″	2′0″	2′0″



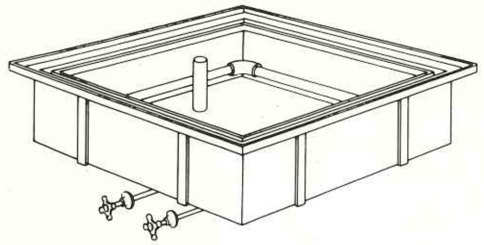
TRANSFER TABLE

Transfer tables are especially useful where "Dry Boxes" and "Glove Boxes" have to be moved from one room to another. Counter top is constructed of 1¼″ thick charcoal gray Colorlith. Understructure is constructed of enamelled steel.

Cat. No.	Length	Width	Height
4-27	3′2″	2′2″	2′7″

Also available in lengths for use with 4′, 5′, 6′ long "Dry Boxes" and "Glove Boxes".

Baths, Hot Plates ACCESSORIES *Electrical*

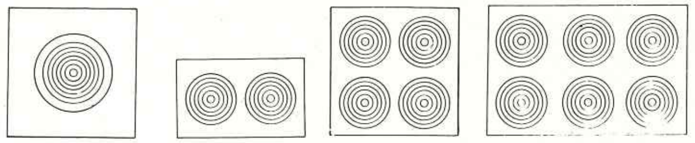


Baths are constructed of heavy gauge stainless steel with water seals between the covers and bath bodies. Insulation is secured to the exteriors of the bath bodies. Baths are set in rabbeted counter top openings on asbestos gasket material and sealed with special cement.

Water Baths are provided with closed brass steam coils with valves or electrical elements with three heat switches. Water Baths are equipped with cold water inlets extending above the water levels with valve and removable standing overflow drain fittings.

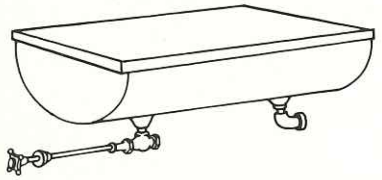
Vapor Baths are provided with perforated brass steam coils with valves and removable standing overflow drain fittings.

COVER ARRANGEMENTS



Sizes are overall dimensions of baths. Each opening has a set of concentric rings.	15¼" x 15¼" 1-8⅛" dia. opening	15¼" x 9¼" 2-6⅛" dia. openings	15¼" x 15¼" 4-6⅛" dia. openings	23½" x 15¼" 6-6⅛" dia. openings
TYPE OF BATHS	**Cat. No.**	**Cat. No.**	**Cat. No.**	**Cat. No.**
Water Baths with perforated steam coils.	**WBP-1**	**WBP-2**	**WBP-4**	**WBP-6**
Water Baths with closed steam coils.	**WBC-1**	**WBC-2**	**WBC-4**	**WBC-6**
Water Baths with electrical elements	**WBE-1**	**WBE-2**	**WBE-4**	**WBE-6**
Vapor Baths with perforated coils.	**VBP-1**	**VBP-2**	**VBP-4**	**VBP-6**

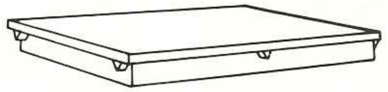
Catalog numbers include baths and covers



ELECTRIC HOT PLATES

Furnished with 3- heat control switch.

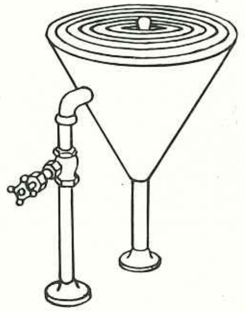
Cat. No	Maximum Volts	Plate Size
EHP1	1750	12"x9"
EHP2	2500	18"x9⅝"
EHP3	3500	24"x9"
EHP4	4000	18"x12"
EHP5	6000	28"x18"



STEAM HOT PLATE

Constructed of heavy gauge steel and designed to fit flush with counter.

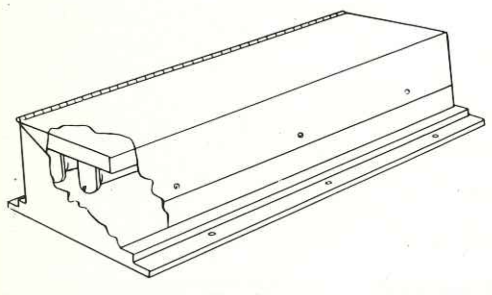
Cat. No.	Length	Width
SHP1	18"	12"



CONICAL STEAM BATHS

Conical steam bath for table top installation. Constructed of polished monel metal.

Cat. No.	Diameter	No. of Rings
CSB8	7"	7



2-TUBE FLUORESCENT LIGHTING FIXTURE D-15 to D-17

Cat. No. D-15 for 24" tubes
Cat. No. D-16 for 36" tubes
Cat. No. D-17 for 48" tubes

No. D-20 and D-21 EXPLOSION-PROOF LIGHTING FIXTURE

Cat. No. D-20 for 75 watt lamp
Cat. No. D-21 for 100 watt lamp

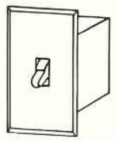
Tubes and Lamps not furnished unless otherwise specified.

No. D-25 and D-26 VAPOR-PROOF LIGHTING FIXTURE

Cat. No. D-25 for 75 watt lamp
Cat. No. D-26 for 100 watt lamp

Additional explosion proof accessories can be furnished when requested.

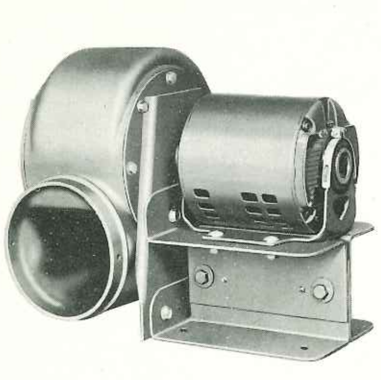
No. D-50 Blowerswitch & Pilot Light for 10 Amperes 125 Volts



No. D-30 and D-31 LIGHT SWITCH for 10 Amperes 125 Volts.

Cat. No. D-30 Single Pole
Cat. No. D-31 Double Pole

Blower Utility Sets ACCESSORIES *Blower Platforms*

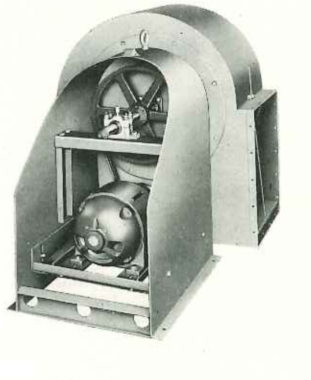


BLOWER — CAST IRON HOUSING

Blower Utility Sets are available having cast iron housings with direct drives and having steel housings with V-belt drives. Each type blower can be furnished with the following features: protective coating on impeller and interior of housing, non-ferrous impeller and explosion proof motor. When any or all of these features are required, please specify. These blowers are generally used for exhausting air; however, they can also be used in supplying air for supplement air type hoods in air conditioned laboratories. Consult with us for additional details.

Blower Utility Sets with steel housings are available with lesser and greater air volumns than listed below and having weather-proof hoods. Consult with us for other sizes, if required.

When specifying, please give characteristics of current available.



BLOWER — STEEL HOUSING

BLOWERS — CAST IRON HOUSINGS

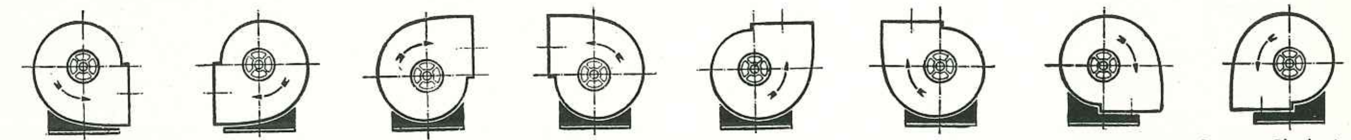
Cat. No.	Motor HP	Fan RPM	⅛" SP CFM	⅛" SP OV	¼" SP CFM	¼" SP OV	⅜" SP CFM	⅜" SP OV
0	1/20	1725	146	1900	114	1490	——	——
1-M	1/20	1140	274	1400	212	1080	——	——
1-H	1/6	1725	447	2280	422	2155	390	1990
1¼-M	1/6	1140	558	1820	500	1630	418	1360
1¼-H	1/3	1725	882	2880	855	2780	821	2670
1½-L	1/4	860	977	2210	870	1970	745	1685
1½-M	1/2	1140	1345	3040	1275	2880	1195	2700
1½-H	1½	1725	2080	4700	2040	4610	2005	4550
1¾-L	1/2	860	1580	2630	1470	2450	1345	2240
1¾-M	1	1140	2160	3600	2085	3480	2000	3335

The above blowers are for 60 cycle alternating or direct currents.

BLOWERS — STEEL HOUSINGS

Cat. No.	Motor HP	Fan RPM Range Min. Max.	Fan RPM	¼" SP CFM	¼" SP OV	⅜" SP CFM	⅜" SP OV	½" SP CFM	½" SP OV
135FS	1	717-845	717	2646	2534	2440	2337	2317	2219
			789	——	——	2795	2677	2682	2569
150GP	1½	668-796	668	3400	2656	3152	2463	2999	2343
			710	3669	2866	3432	2681	3296	2575
165HQ	2	586-664	586	3960	2538	3652	2341	3451	2212
			664	4652	2982	4355	2792	4190	2686
182GT	1½	464-584	464	4504	2371	4208	2215	3860	2032
			510	5000	2632	4790	2521	4545	2392
245GV	1½	252-345	252	5200	1507	3795	1100	——	——
			316	7325	2123	6695	1941	5635	1633

ROTATION and DISCHARGE

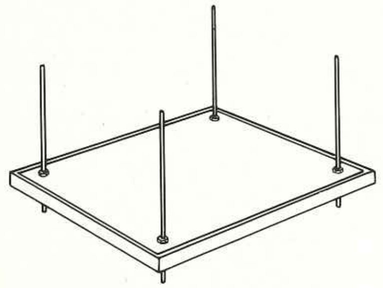


Counter-Clockwise Bottom Horizontal — Clockwise Bottom Horizontal — Clockwise Top Horizontal — Counter-Clockwise Top Horizontal — Counter-Clockwise Up Blast — Clockwise Up Blast — Clockwise Down Blast — Counter-Clockwise Down Blast

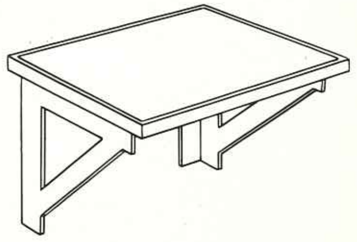
The above illustrations are shown for determining the rotation of the motor and direction of discharge of the Blower Utility Sets. The rotation and direction of discharge are taken from the motor side.

Ceiling hung insulated blower platforms are furnished with 36" long rods, unless otherwise specified.

Wall mounted insulated blower platforms are furnished with two wall brackets. These blower platforms have two heavy gauge plates with 1" thick insulation between the plates. The bottom plate has a reinforcing flange on four sides.



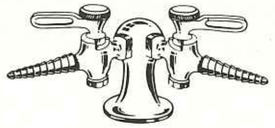
CEILING HUNG BLOWER PLATFORM



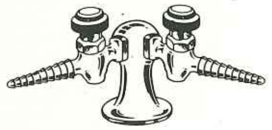
WALL MOUNTED BLOWER PLATFORM

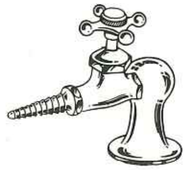
Accessories FIXTURES *Accessories*

D-51 Single Pedestal Cock, ⅜″ female inlet. Air, Gas or Vac.

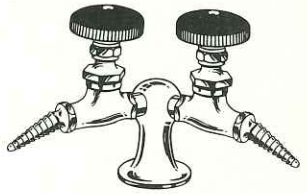

D-53 Double Pedestal Cock, 90°, ⅜″ female inlet. Air, Gas or Vac.

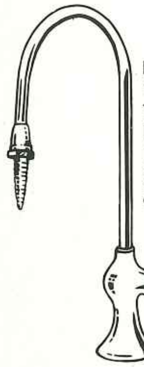
D-61 Single Pedestal Needle Cock, ⅜″ female inlet. Air, Gas or Vac.

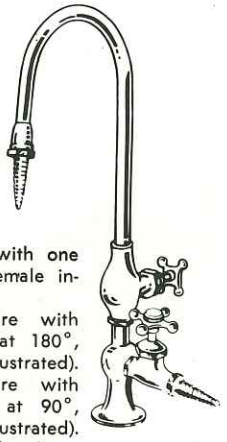

D-63 Double Pedestal Needle Cocks, 90°, ⅜″ female inlet. Air, Gas or Vac.

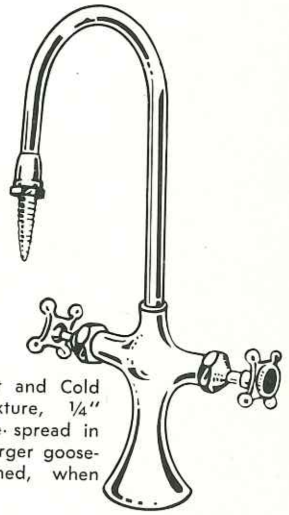

D-81 Single Pedestal Compression Water Valve, ⅜″ female inlet.

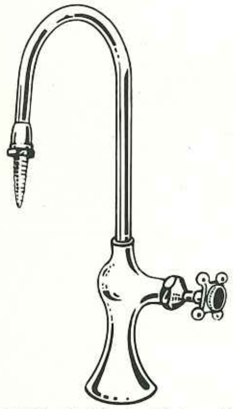
D-83 Double Pedestal Compression Water Valve, 90°, ⅜″ female inlet.

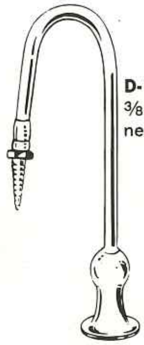

D-93 Double Pedestal Compression Steam Valve, 90° ⅜″ female inlet.

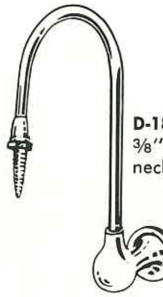

D-87 Gooseneck Fixtures, ¼″ male inlet. Gooseneck has a 6″ spread. This fixture is available having a larger spread in the gooseneck. If larger spread in the gooseneck is required, please specify, when ordering.


D-89 Gooseneck Fixture with one straightway valve, ⅜″ female inlet.
D-89-A Gooseneck Fixture with two straightway valves at 180°, ⅜″ female inlet (not illustrated).
D-89-B Gooseneck Fixture with two straightway valves at 90°, ⅜″ female inlet (not illustrated).
The gooseneck spread in the above fixtures in 6″. Larger goosenecks can be furnished when so ordered.

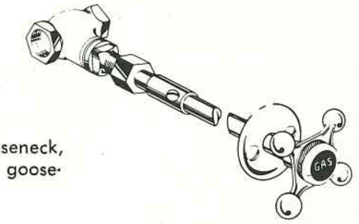

D-110 Combination Hot and Cold Water Gooseneck Fixture, ¼″ male inlets 4″ o.c. The spread in the gooseneck is 8″. Larger goosenecks can be furnished, when ordered.

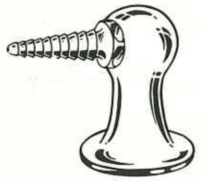

D-150 Distilled Water Gooseneck Fixture, block tin lined, self-closing type, ¼″ male inlet. The spread in the gooseneck is 6″.
D-151 Distilled Water Gooseneck Fixture, block tin lined ,manual type, ¼″ male inlet The spread in the gooseneck is 6″.


D-184 Pedestal with Gooseneck, ⅜″ female inlet. Spread in gooseneck is 6″.


D-185 Pedestal with Gooseneck, ⅜″ female inlet. Spread in gooseneck is 6″.

D-193 Straight Remote Control Assembly, ⅜″ female inlet, ⅜″ female outlet.
D-194 Angle Remote Control Assembly, ⅜″ female inlet, ⅜″ female outlet. (Not illustrated.)
When ordering, please specify name of service for code index.



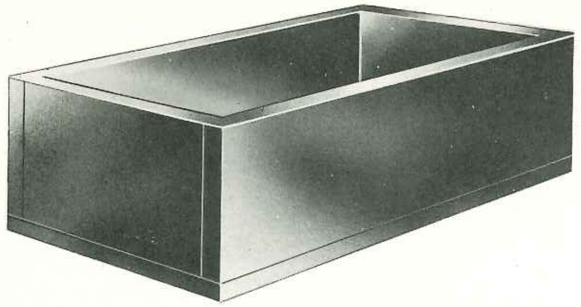

D-180 Pedestal with Straight Hose End, ⅜″ female inlet.

D-181 Pedestal with Angle Hose End, ⅜″ female inlet.

D-182 Flange with Straight Hose End, ⅜″ female inlet.

D-183 Flange with Angle Hose End, ⅜″ female inlet.

Sinks ELECTRICAL FIXTURES *Drain Fittings*

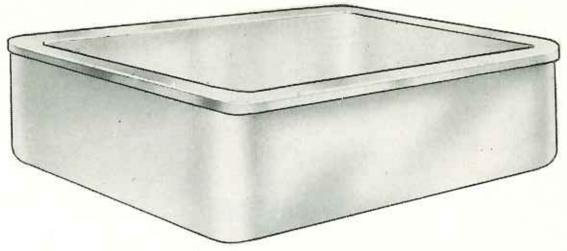


SINKS SA-50 to SA-52

ALBERENE STONE sinks are constructed of accurately machined natural stone slabs having maximum corrosion resistance. All joints are acid proof cemented, tongue and groove type with concealed bolts and nuts. Sinks are available having square interior corners and having coved interior corners with bottoms sloped to drain. Square interior corners are furnished, unless otherwise ordered. Alberene Stone sinks are available in any size.

	Outside Dimensions		
Cat. No.	Length	Width	Depth
SA-50	18″	18″	8″
SA-51	24″	18″	8″
SA-52	24″	18″	12″

For other sizes, please consult us.

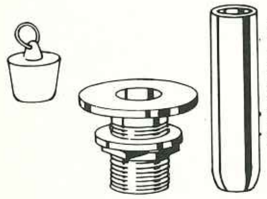


SINKS DS-10 to DS-30

DURATHERM gray glazed vitrified chemical porcelain sinks are solid, non-porous, one piece construction, without seams or joints. The glazing and the entire sink body are corrosion-proof. All corners are fully rounded and the bottoms slope to the drain outlets.

	Outside Dimensions		
Cat. No.	Length	Width	Depth
DS-10	18″	18″	8″
DS-20	24″	18″	8″
DS-30	24″	18″	12″

For other sizes, please consult us.


D-210 1½″ Lead Sink Strainer with Stopper and Locknut.
D-210-A 1½″ Lead Overflow, 6″ high.
D-210-B 1½″ Lead Overflow, 8″ high.

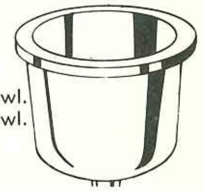
Equipment is furnished with electrical fixtures having No. D2, 2-Wire Non-Polarized unless otherwise specified.

RECEPTACLES

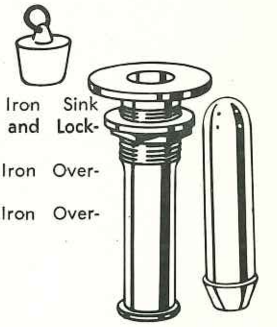
10 Amp., 250 Volts; 15 Amp., 125 Volts

No.	Description	Type	"T" Single Face Cat. No.	"TD" Single Face Cat. No.	P P - Single Gang Cat. No.	PD - Double Gang ("PD" Not illustrated) Cat. No.
D1	2-Wire Non-Polarized		**D1T**	**D1TD**	**D1P**	**D1PD**
D2	2-Wire Non-Polarized		**D2T**	**D2TD**	**D2P**	**D2PD**
D3	3-Wire Polarized*		**D3T**	**D3TD**	**D3P**	**D3PD**
D4	2-Wire Polarized		**D4T**	**D4TD**	**D3P**	**D4PD**
D5	2-Wire Twist-Lock		**D5T**	**D5TD**	**D4P**	**D5PD**
D6	3-Wire Twist-Lock*		**D6T**	**D6TD**	**D5P**	**D6PD**
D7	3-Wire Grounding Type		**D7T**	**D7TD**	**D7P**	**D7PD**
	20 Amp., 250 Volts					
D8	3-Wire Polarized'		**D8T**	**D8TD**	**D8P**	**D8PD**
D9	2-Wire Polarized		**D9T**	**D9TD**	**D9P**	**D9PD**
D10	2-Wire Twist-Lock		**D10T**	**D10TD**	**D10P**	**D10PD**
D11	3-Wire Twist-Lock*		**D11T**	**D11TD**	**D11P**	**D11PD**

D-215 6″ x 3″ Oval Lead Bowl.

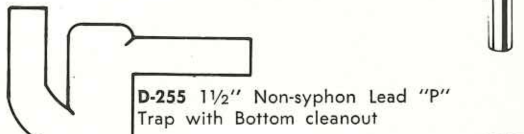

D-220 3″ Dia. Lead Bowl.
D-221 4″ Dia. Lead Bowl.

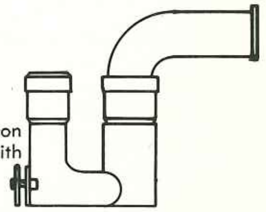
D-225 Lead Tailpiece for 1½″ lead sink strainer, 1½″ lead traps and all lead bowls, 1½″ O.D., 1¼″ I.D.


D-230 1½″ Silicon Iron Sink Strainer with Stopper and Locknut.
D-230-A 1½″ Silicon Iron Overflow, 6″ high.
D-230-B 1½″ Silicon Iron Overflow, 8″ high.

D-235 6″ x 3″ Silicon Iron Bowl.

D-245 3″ Dia. Silicon Bowl.
D-246 5″ Dia. Silicon Bowl.


D-255 1½″ Non-syphon Lead "P" Trap with Bottom cleanout


D-270 1½″ Non-syphon Silicon Iron Centrifugal "P" Trap with front cleanout.

LAPORATORY FURNITURE AND EQUIPMENT SPECIFICATIONS

MATERIALS

GENERAL — Materials used in the construction of laboratory furniture and equipment shall be the best of their respective kinds and shall be selected for their specific applications. Methods of construction shall be of proven designs and conform to the latest and best practices for production of durable, rugged, corrosion resistant laboratory furniture and equipment.

STEEL — All sheet steel used in the construction of laboratory furniture and equipment shall be hot lead coated special alloy steel. Steel sheets shall be prime quality, three pass cold rolled, patent leveled and resquared. The hot lead coating shall be free from pinholes and other imperfections that would affect its protective qualities. All gauges shall be U.S. standard and shall be selected to develop structurally the required strength and rigidity for each component part.

STAINLESS STEEL — Stainless steel, unless otherwise specified, shall be Type 302 austenitic chromium nickel stainless steel in accordance with A.I.S.I. specifications containing 8% nickel and 18% chromium. All exposed surfaces, unless otherwise specified, shall have No. 4 finish. All gauges shall be U. S. standard.

LEAD — Sheet lead shall be not less than six pounds and shall be chemically pure virgin lead. Lead tubing shall have a wall thickness of not less than ⅛" and all other lead parts shall have a minimum thickness of ⅛".

Lead for cast or molded parts requiring machining shall have antimony or tellurium added.

Factory fabricated joints in lead sheet work shall be burned with pure lead using hydrogen gas and shall be continuous without defects. Burned joints shall be ground smooth where required. Field joints and connections of machined parts shall be made water tight by specially designed lead to lead joints. Where lead is joined with a different kind of material the joints shall be made water tight with specially selected cement or washers.

ALBERENE STONE (SOAPSTONE) — Alberene stone shall be natural quarried Virginia Alberene stone; blue gray in color, without lamination, stratification or cleavage plans, of uniform density, homogeneous except for possible veining which is warranted to be sound and is limited in extent, first grade selected for laboratory use.

Regular laboratory grade Alberene stone shall have the following physical properties: modulus of rupture in any direction — 1,500 lbs, per square inch (minimum); abrasive hardness not less than Ha 4.50; absorption of water (48 Hrs.) by weight — 0.20% (maximum).

Grade 25 Alberene stone shall have the following physical properties: modulus of rupture in any direction — 3,000 lbs. per square inch (approximately); abrasive hardness not less than Ha 15; absorption of water (48 Hrs.) by weight 0.10% (maximum).

Alberene stone shall be of the thickness specified and shall be not less than 1¼" thick. All exposed surfaces shall be honed finished.

All Alberene stone shall be regular laboratory grade stone, unless otherwise specified.

Alberene stone fume hood basses shall be regular laboratory grade stone specially selected to withstand thermal shock.

COLORLITH — Colorlith shall be composition stone, charcoal gray, cameo brown or surf green in color and shall be composed of portland cement and finely dispersed asbestos fibers integrally mixed with chemical resistant coloring and fillings — bonded under great pressure and then specially treated and processed to form a dense homogeneous material for laboratory use.

Colorlith shall have the following physical properties based on 1¼" thickness: modulus of rupture in any direction — 4,000 lbs. per square inch; abrasive hardness Ha 25; absorption of water (48 Hrs.) by weight 20%.

All exposed surfaces shall have a smooth finish and all exposed corners shall be rounded.

Cameo brown and surf green Colorlith shall be given a coating of clear specially selected wipe-on finish.

All Colorlith, unless otherwise specified, shall be charcoal gray in color. (Charcoal gray Colorlith is recommended for general laboratory use over the other two colors.)

TRANSITE — Transite shall be a composition stone consisting of portland cement, asbestos fibers and inert materials bonded under great pressure into a dense unlaminated sheet. All exposed surfaces and edges shall be treated, when specified, for specific applications.

GLASS — All glass for fume hood chambers shall be ¼" thick laminated safety glass, Glass for cabinet and case glazed doors shall be double strength (DSA) quality glass. Glass for table tops, unless otherwise specified, shall be ¼" thick polished plate glass with exposed edges polished.

FUME HOODS

COMPOSITION STONE HOODS — Fume hood chambers shall be lined with treated ¼" thick Transite, unless otherwise specified, and have a baked-on enameled, all welded, 12 gauge lead coated steel frame superstructure or have a complete baked-on enameled 18 gauge reinforced enclosure at the sides and at the front above the openings, with the sashes, where called for, riding up and behind the front enclosure. The Transite lining panels shall be accurately cut to fitting size and securely held in place with cemented concealed fastenings.

Sliding sashes and windows where required, shall be glazed with ¼" thick laminated safety glass. Glass lites shall be held in position by Transite glazing strips fastened with cemented concealed screws. Glass lites in sashes shall have a continuous Neoprene rubber channel shaped gasket. Sash frames shall be 18 gauge lead coated steel with mitred flush welded exposed corners and shall be lined with ¼" thick Transite. Exposed weight columns shall be 16 gauge lead coated steel having fiber pulleys with ball bearing inserts. Sashes shall be hung on Monel metal cables.

Fume hood chambers shall be provided with baffles, as specified. Baffles shall be constructed of ¼" thick Transite, unless otherwise specified. Open hoods shall have Type B1 baffles. Closed type hoods with sashes shall only be provided with baffles when specified. Hoods shall be open type or closed type having sliding sashes as called for. Vent collars shall be provided in the roofs of the fume hood chambers for connection of the duct work. When specified, the fume hood chambers shall be lined with ¼" thick Chemstone or Colorlith.

Composition stone fume hood chambers, where specified to be completely constructed of composition stone, shall have sides, fronts, backs and roofs of not less than ½" thickness and bracing members of ¾" thickness with 1¼" by 1¼" continuous corner reinforcing battens. All fastenings shall be concealed and no metal shall be exposed on the interior of the fume hood chambers. These hoods shall be open or closed type with sashes as called for.

Working counters shall be of the materials and thickness specified.

ALBERENE STONE (SOAPSTONE) HOODS — Fume hood chambers shall be constructed of not less than 1¼" thick stone specially selected for hood construction. The stone panels shall be cut to size at the quarry. Hoods shall be shipped knocked-down for assembly with cemented concealed fastenings at the job site. Hoods shall be open type or closed type having sliding sashes as called for. Open type hoods, unless otherwise specified, shall have Type B1 baffles. Closed type hoods shall only be provided with baffles when specified. Sliding sashes shall have 18 gauge lead coated steel frames with mitred flush welded corners and shall be lined with ¼" thick Transite. Glass lites in sashes and windows shall be ¼" thick laminated safety glass. Glass in sashes shall have continuous Neoprene rubber channel shaped gaskets and Transite glazing strips fastened with cemented concealed screws. Weight columns shall be 16 gauge lead coated steel having fiber pulleys with ball bearing insets. Sashes shall be hung on Monel metal cables. Openings shall be provided in the roofs for duct connections.

Working counters shall be 2" thick Alberene (Soapstone) stone:

FINISHES

METAL FINISH — All sectional units, cabinets, cases and other lead coated steel components of the laboratory furniture and equipment shall have a baked-on acid, alkali and solvent resistant finish. Prior to the applications of the finishing processes, each unit shall be carefully inspected and made ready for the successive finishing coats. An all mineral filler shall be applied where required and sanded smooth. A selected rust inhibitive primer for maximum bonding qualities between the basic corrosion resistant lead coated steel and the first finish coat shall be applied and sanded smooth after which the finish coats shall be applied and baked to complete polymerization. The time cycle and the temperature shall be automatically controlled.

The resultant finish shall be highly resistant to abrasion, acids, alkalies and solvents and shall be flexible, hard and smooth.

COMPOSITION STONE FINISH — Where specified, composition stone shall be given an applied baked-on black acid resistant finish. The stone shall be prepared for successive coats of an especially compounded jet black semi-gloss finish. Each coat shall be baked to complete polymerization in an automatically timed and temperature controlled oven. This finish, when specified, shall be applied to all exposed surfaces and exposed edges of the composition stone.

SERVICE FIXTURE FINISH — Laboratory brass service fixtures shall be ground smooth and shall have a heavy chromium plated finish over nickel and copper. The chromium finish shall be highly polished.

MECHANICAL SERVICES

GENERAL — Mechanical service fixtures shall be heavy duty, specially designed and manufactured for laboratory use and shall have provisions for index coding. All fixtures for liquids and gaseous mixtures shall have lettered and colored index for each service. All handles shall be designed for easy sure grip. All serrated hose ends shall have 10 serrations. Fixtures for gas, air and vacuum shall be ground key type, unless otherwise specified. All water and steam fixtures shall be compression type, unless otherwise specified. Drain fittings shall be lead, unless otherwise specified.

PLUMBING FIXTURES — Plumbing fixtures, except drain fixtures and fittings, shall be a red-brass composition containing at least 85% copper with washers and seats, as specified, of maximum ware resistant materials for the specific use. Fixtures shall be ground smooth and shall have heavy polished chromium plated finish over nickel and copper. When specified, fixtures shall have a plastic finish in lieu of the plated finish and shall be specially sand blasted prior to the application of the plastic finish. Ground key type cocks shall be individually ground fitted having spring compensating device. The serrated hose end shall be an integral part of the body and the lever handle shall be an integral part of the plug.

Needle cocks shall have integral needle stems engaging in the seated cock body for fine control of gaseous mixtures. The hose ends shall be an integral part of the body. Solid brass, round, knurled, sure-grip handles shall be provided on these fixtures.

Needle valves shall have removable self-aligning stainless steel needles and removable stainless steel seats and one-piece constructed bonnets. Four-ball sure-grip handles shall be provided on these fixtures. Removable serrated hose ends shall be interchangeable with aerators.

Compression type water valves shall have removable seats and washers designed and fabricated for long ware. Four-ball sure-grip handles shall be provided on these fixtures. The removable serrated hose ends shall be interchangeable with aerators.

Compression type steam valves shall have heat-resistant round hand wheels, removable seats and washers particularly selected for steam service. Bonnets shall be one piece construction.

Pedestals shall be single or duel tier and shall be drilled and tapped for the quantity of fixtures to be mounted on each pedestal. When pedestals are for fixtures having four-ball sure-grip handles set at 90° to each other, extensions shall be furnished with the pedestals.

Distilled water fixtures shall be block tin lined, manually operated or self-closing, as specified.

Lead drain fittings shall be chemically pure lead having antimony or tellurium added for parts requiring machining.

Silicon iron drain fittings shall be a silicon cast metal alloy containing 14.5% silicon, some manganese, carbon and iron as the remainder.

ELECTRICAL FIXTURES — Electrical fixtures shall be provided for pedestal, line or flush mountings, as specified or shown, complete with enclosure boxes, receptacles and cover plates.

Cover plates shall be stainless steel or satin finish chromium plated. Pedestal boxes shall be cast aluminum having the same baked-on finish as specified under Metal Finish in Section 5.

Line type boxes shall be cast malleable iron with baked-on finish. Flush mounted fixtures shall be furnished with standard gem boxes. Receptacles shall be furnished for voltage and amperage, as specified. (No. D-2 receptacles are furnished unless otherwise specified or ordered.)

TERMS and CONDITIONS

1. The work covered by this specification shall consist of the furnishing of all Scientific Laboratory Furniture and Equipment shown on drawings, or called for in accompanying equipment list, unless specifically stated in proposal "Not Included".
2. All equipment to be in strict accordance with Duralab Equipment Corporation standard construction. All equipment to be in one of our standard colors and standard hardware. Special colors at additional charge.
3. All traps, overflows, sink plugs, strainers, sinks, drain troughs and support strut assemblies shown on drawings or called for, shall be included unless specifically stated in proposal "Not Included".

WORK NOT INCLUDED

4. All electrical work including conduit, wiring and the connection of same to service outlet fixtures.
5. All mechanical service piping, vacuum breakers, shut off valves. drainlines and piping, the installation and connection of same to service outlet fixtures. All ventilation duct work, blowers, blower platforms and blower switches, for mechanical ventilation of fume hoods, dry boxes and etc., unless specifically stated in proposal as "Included".
6. All installation of all service fixtures. All door and drawer locks unless specifically "Included" in proposal.
7. All framing or reinforcements of walls, floors or ceilings necessary to provide adequate support for equipment

SPECIAL CONDITIONS

8. All equipment purchased on a delivered basis only is to be delivered to the outer door of the Receiving Department and unloaded by purchaser.
9. All equipment purchased on an installed basis is to be delivered to a location within the job site selected by purchaser.
10. When installation services are required, equipment is to be delivered to job site, uncrated, placed in its proper location, assembled, leveled, secured where required to floors or walls, properly scribed and fitted, base molding attached and made ready for use. All blowers and service fixtures which are to be furnished are to be turned over to the purchaser and not installed or connected.
11. All installation prices are prepared with the assumption that elevator service, hoists or cranes and their operation will be made available to our installation crew, without cost, to us, for their respective use. If it is necessary for our installation crew to carry the equipment up or down flights of stairs, vendor will charge additional expense to purchaser.
12. All prices are firm, and do not include any sales, property or use taxes, nor any federal, state, city or local taxes of any kind.
13. All items of furniture and parts thereof are carefully inspected, packed and delivered to carrier in good condition. Our responsibility ceases when carriers receipt is taken. We reserve the right to ship via truck, express or rail route, unless purchaser specifies exact routing desired. Differences in cost between vendors cheapest method of shipping and purchasers requested routing shall be charged to the customer.
14. We reserve the right to ship equipment when complete order is filled.
15. All invoices covering shipments F.O.B. factory, Brooklyn, N. Y. or F.O.B. points of origin, with or without prepaid freight or express prepaid, are payable ten (10) days from date of invoice.
16. All invoices covering delivered and installed contracts or orders, are payable on the basis of 90% of the contract price upon arrival of equipment, the balance, ten (10) days from date of completion of installation.
17. Cancellation of orders can be made only upon the written consent of Duralab Equipment Corp.
18. Duralab Equipment Corp. reserves the right to make changes in design, construction, materials or equipment without notification, in conformity with our latest designs and standards.
19. When purchasers inquiry and or order refers to competitors catalog numbers and or specifications, it is expressly understood that Duralab Equipment Corp. standard equivalent will be accepted as an equal.
20. All orders are subject to the approval of our Credit Department.
21. Our equipment is carefully inspected and packed. Claims for damage in shipment shall be the purchaser's responsibility, unless our price includes installation of equipment.
22. Prices quoted F.O.B. Brooklyn, N. Y. or point of origin, includes cost of equipment and necessary packing (except special overseas packing) but do not include freight or transportation. Prices F.O.B. Brooklyn, N. Y. or points of origin, with freight allowed include cost of equipment and necessary packaging and freight to the station nearest destination, but do not include cost of cartage from station to building. Delivered prices include cost of equipment, necessary freight and cartage to building, but do not include uncrating and carrying into building. Installed prices include cost of equipment, necessary freight and cartage to building and installed as described above. When shipping contingencies cause the arrival of our equipment in the absence of our installation superintendent, the purchaser will receive the equipment on our behalf.
23. All terms and conditions noted herein are subject to change only when written on the face of the quotation and or upon the written consent of Duralab Equipment Corporation.

SUPERIOR QUALITY
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& Equipment
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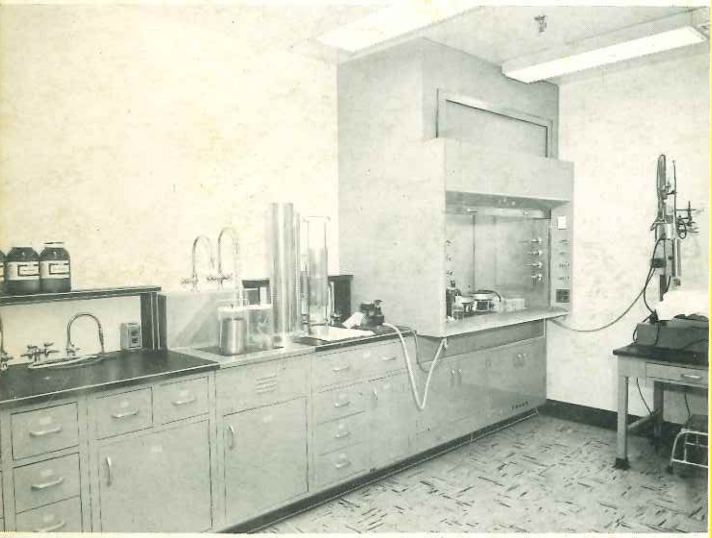

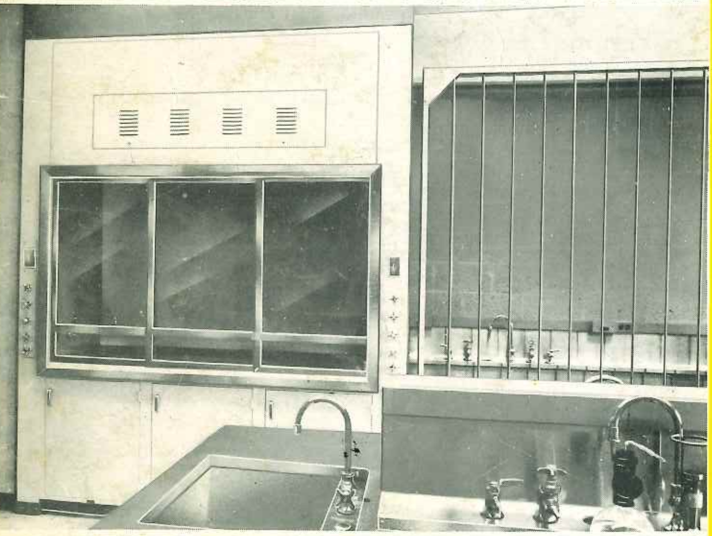

Partial List of DURALAB *Installations*

Allied Chemical & Dye Corp., Barrett Div., Philadelphia, Pa.
Air Reduction Sales Co., A Div. of Air Reduction Co., Inc., Riverton, N. J.
American Cyanamid Co., Waterbury, Conn.
Air Reduction Chemical Co., Calvert, Kentucky
Bakelite Co., A Div. of Union Carbide and Carbon Corp., Bound Brook, N. J.
Colgate-Palmolive Co., Jersey City, N. J.
E. I. du Pont de Nemours & Co., Inc., Newark, Del.
Parlin, N. J.
Edgemoor, Del.
Wilmington, Del.
The Dow Chemical Co., Rocky Flats, Colo.
Esso Standard Oil Co., Everett, Mass.
Fritzsche Bros., New York, N. Y.
Ford Motor Co., Green Island, N. Y., Kingman, Arizona
General Electric Co., Hanford Atomic Products Operation, Richland, Wash.
Syracuse, N. Y.
General Latex & Chemical Corp. of Ohio, Ashland, Ohio
Goodyear Atomic Corp., Portsmouth, Ohio
Glass Fabrics Finishing Co., Cedar Grove, New Jersey
Philip A. Hunt Co., Palisades Park, New Jersey
Hercules Powder Co., Inc., Mansfield, Mass., Brunswick, Ga., Wilmington, Del.
Hollingsworth & Vose Co., West Croton, Mass.
E. F. Houghton & Co., Philadelphia, Pa.
Handy & Harman, Fairfield, Conn.
Interchemical Corp., New York, N. Y.
International Business Machines Corp., Poughkeepsie, N. Y.
The M. W. Kellogg Co., Jersey City, New Jersey
Ketona Chemical Corp., Ketona, Ala.
Lansdale Tube Co., Lansdale, Pa.
Monsanto Chemical Co., Springfield, Mass.
Owens-Corning Fiberglas Corp., Anderson, S. C., Ashton, R. I.
Olin-Mathieson Chemical Corp., New Haven, Conn.
Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Maywood, N. J.
Pennsylvania Salt Mfg. Co., Wyndmoor, Pa.
Quaker Chemical Products Corp., Conshohocken, Pa.
Raytheon Mfg. Co., Waltham, Mass.
Rohm & Haas Co., Deer Park, Texas, Philadelphia, Pa.
Radio Corporation of America, Princeton, N. J. Harrison, N. J.
Reynolds Metals Co., Louisville, Ky.
Standard Oil Co. (Indiana), Mandan, N. D.
E. R. Squibb & Sons, Div. of Olin-Mathieson Chemical Corp., New Brunswick, N. J.
Columbia, S. A.
Schering Corp., Union, N. J.
Shell Chemical Corp., Houston, Texas
Simplex Wire & Cable Co., Portsmouth, N. H.
Sylvania Electric Products, Inc., Danvers, Mass., Salem, Mass.
Smith, Kline & French Laboratories, Philadelphia, Pa.
Shawinigan Resins Corp., Springfield, Mass.
Sikorsky Aircraft, Div. of United Aircraft Corp., Stratford, Conn.
Sprague Electric Co., North Adams, Mass.
Standard Packaging Corp., Flex-Vac Div., Clifton, N. J.
Sharp & Dohme, West Point, Pa.
Union Oil Co. of California, Cut Bank, Montana
United States Steel Corp., Gary (McDowell Co.), West Va.
West Virginia Pulp & Paper Co., Covington, Va.

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